SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

UNITED STATES

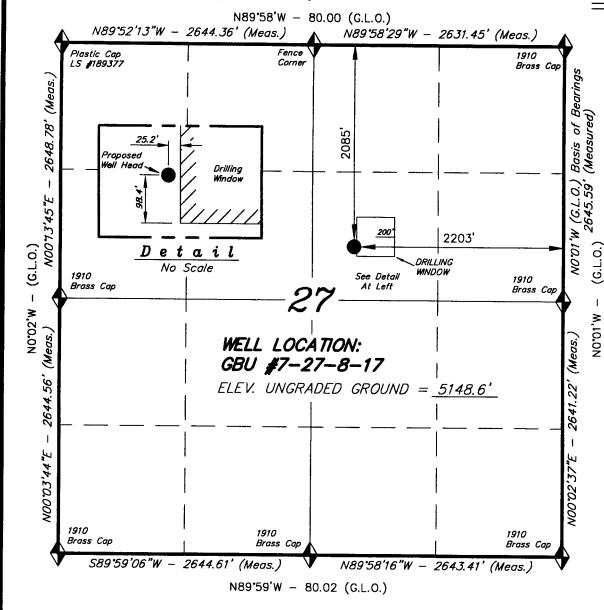
Form approved. Budget Bureau No. 1004-0136 Expires December 31, 1991

| BUREAU OF LAND MANAGEMENT | | | | 5. LEASE DESIGNATION AND SERIAL NO. UTU-76241 | | |
|--|--|--|---------------------------|---|---|--|
| APPLICATION FOR PE | ERMIT TO DRILI | L, DEEPEN, OR P | LUG BACK | | 6. IF INDIAN, ALLOTTI N/A | E OR TRIBE NAME |
| 1a. TYPE OF WORK 1b. TYPE OF WELL OIL WELL X WELL | X DEEPEN OTHER | SINGLE | MULTIPLE CONE | | 7. UNIT AGREEMENT! Greater Bound 8. FARM OR LEASE NA #7-27-8-17 | lary |
| 2. NAME OF OPERATOR Inland Production Company | | | | | 9. API WELL NO. | |
| 3. ADDRESS OF OPERATOR 410 - 17th Street, Suite 700, D | Denver, CO 80202 | | 303) 893-0102 | | 10. FIELD AND POOL O | |
| 4. LOCATION OF WELL (Report location of At Surface SW/NE) At proposed Prod. Zone | 2085' FNL & 2203' | FWL FEL | 1428076 58606 | 8E | II. SEC., T., R., M., ORI AND SURVEY OR AR SW/NE Sec. 27, T8S, R | REA |
| 14. DISTANCE IN MILES AND DIRECTION FRO 14.2 miles southeast of Myton | | FFICE* | | | 12. County Duchesne | UT |
| 15. DISTANCE FROM PROPOSED* LOCATION OR LEASE LINE, FT.(Also to | TO NEAREST PROPERTY | 16. NO. OF ACRES IN LEASE | 17. NO. OF A | CRES ASSIGNED T | O THIS WELL | |
| Approx. 2085' f/lse line 18. DISTANCE FROM PROPOSED LOCATION* | | 1760 19. PROPOSED DEPTH | 20. ROTARY | OR CABLE TOOLS | | |
| DRILLING, COMPLETED, OR APPLIED FOR Approx. 1320' | ON THIS LEASE, FT. | 6500' | | Rotary | | |
| 21. ELEVATIONS (Show whether DF, RT, GR, etc. 5145.9' GR |) | | | | DATE WORK WILL STA | |
| 23. PROPOSED CASING AND | CEMENTING PROGRA | M | | | | |
| SIZE OF HOLE | SIZE OF CASING WEIGH | T/FOOT S | ETTING DEPTH | QUANTITY (| OF CEMENT | |
| Refer to Monument Butte Fie | ld SOP's Drilling Pro | ogram/Casing Design | | | | |
| Inland Production Con Draft Conditions of Ap IN ABOVE SPACE DESCRIBE PROPOSEI If proposal is to drill or deepen diregionally. | proval are attached. | Federal Approval of Federa | present productive zone a | and proposed new | productive zone. | |
| SIGNED HOW | | TITLE Permitting A | gent | DATE | 2/27/01 | <u>-</u> . , , , , , , , , , , , , , , , , , , , |
| (This space for Federal or State office use) PERMIT NO. | 3-32232 | APPROVAL DATE | | | | |
| Application approval does not warrant or certify to CONDITIONS OF APPROVAL, IF ANY: APPROVED BY | hat the applicant holds legal or equit | TITLE BRADI | EY G. HILL ON SPECIALIS | DATE | 03-15 | |
| |) | | | | mi | ECEIVED |

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

T8S, R17E, S.L.B.&M.





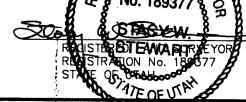
= SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (PARIETTE DRAW SW)

INLAND PRODUCTION COMPANY

WELL LOCATION, GREATER BOUNDARY UNIT #7-27-8-17, LOCATED AS SHOWN IN THE SW 1/4 NE 1/4 OF SECTION 27, T8S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.





TRI STATE LAND SURVETING & CONSULTING

38 WEST 100 NORTH - VERNAL, UTAH 84078 (435) 781-2501

| (| , |
|-------------------|---|
| SCALE: 1" = 1000' | SURVEYED BY: C.D.S. R.J. |
| DATE: 1-12-01 | WEATHER: COLD |
| NOTES: | FILE # |

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office P.O. Box 45155 Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

March 14, 2001

Memorandum

To:

Assistant District Manager Minerals, Vernal District

From:

Michael Coulthard, Petroleum Engineer

Subject: 2001 Plan of Development Greater Boundary

Unit Duchesne County, Utah.

Pursuant to email between Lisha Cordova, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management. The following wells are planned for calendar year 2000 within the Greater Boundary Unit, Duchesne County, Utah.

LOCATION WELL NAME API#

(Proposed PZ Green River)

| 43-013-32228 43-013-32229 43-013-32230 43-013-32231 43-013-32233 43-013-32234 43-013-32234 | GBU 1-27-8-17 GBU 2-27-8-17 GBU 4-27-8-17 GBU 6-27-8-17 GBU 7-27-8-17 GBU 8-27-8-17 GBU 9-27-8-17 GBU 10-27-8-17 | Sec. 27, T8S, R17E Sec. 27, T8S, R17E Sec. 17, T8S, R17E Sec. 27, T8S, R17E | 0660 FNL 1980 FEL 0660 FNL 1285 FWL 1804 FNL 1996 FWL 2085 FNL 2203 FEL 1889 FNL 0624 FEL 2189 FSL 0909 FEL |
|--|---|--|--|
|--|---|--|--|

This office has no objection to permitting the well at this time.

/s/ Michael L. Coulthard

bcc: File - Greater Boundary

Division of Oil Gas and Mining

Agr. Sec. Chron Fluid Chron

Mcoulthard:mc:3-14-1



March 5, 2001

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
ATTN: Lisha Cordova
P.O. Box 145601
Salt Lake City, UT 84114-5801

RE: Applications for Permits to Drill

Dear Lisha:

Please find attached Applications for Permits to Drill (APDs) the following wells:

Greater Boundary Unit #1-27-8-17 Greater Boundary Unit #2-27-8-17 Greater Boundary Unit #4-27-8-17 Greater Boundary Unit #6-27-8-17 Greater Boundary Unit #7-27-8-17 Greater Boundary Unit #8-27-8-17 Greater Boundary Unit #9-27-8-17 Greater Boundary Unit #10-27-8-17

Note that the #4-27-8-17, #7-27-8-17, #9-27-8-17, and #10-27-8-17 require exceptional spacing due to topographic constraints (See the site-specific topographic maps in each APD for details). None of the proposed well locations for these exception locations encroaches less than 660' within the Unit or Lease boundary.

Please send approved APDs to Brad Mecham at Inland's field office in Pleasant Valley. Contact me at (970) 481-1202 if you have any questions or require additional information. Thank you for your assistance with these APDs.

Respectfully,

Jon D. Holst Permitting Agent

Inland Production Company

RECEIVED

MAR 0 9 2001

DIVISION OF OIL, GAS AND MINING

Well No.: 7-27-8-17

CONDITIONS OF APPROVAL APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company

Well Name & Number: Greater Boundary 7-27-8-17

API Number:

Lease Number: UTU-76241

Location: SWNE Section 27, T8S R17E

GENERAL

Access well location from the west, off of the access road for the 6-27-8-17 well location.

CULTURAL RESOURCES

See CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.

PALEONTOLOGICAL RESOURCES

See CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.

SOILS, WATERSHEDS, AND FLOODPLAINS

See CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.

WILDLIFE AND FISHERIES

See CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61.

THREATENED, ENDANGERED, AND OTHER SENSITIVE SPECIES

See CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND UINTAH COUNTIES, UTAH EA NUMBER 1996-61. (See below)

RECEIVED

MAR 0 9 2001

Ŭi√ISION OF OIL, GAS AND MINING MOUNTAIN PLOVER: If new construction or surface disturbing activities are scheduled to occur between April 1 and August 15, detailed surveys of the area within 0.5 mile of the proposed location and within 300 feet of proposed access routes must be conducted to detect the presence of mountain plovers. All surveys must be completed prior to initiating new construction or surface disturbing activities (see Survey Protocol COAs EA Number 1996-61).

OTHER

Installation of the surface gas pipeline and any subsequent buried gas or water pipelines will follow the conditions of approval outlined above.

Except as specified in the APD, the installation of the surface gas line and any subsequent buried pipelines will follow the edge of the existing roadways without interfering with the normal travel and maintenance of the roadway.

The installation of any buried pipelines will disturb as little surface as possible and will not exceed 60 feet in width. Reclamation of the water line area will be completed within 10 days after installation. The surface will be recontoured to natural or near natural contours. Reseeding will be with the same seed mixture specified for reclamation of the well site. The interface of the buried line disturbance area and the edge of any adjacent access roads will be constructed with a borrow ditch and road berm to minimize vehicular travel along the water line route.

RECEIVED

INLAND PRODUCTION COMPANY **GREATER BOUNDARY #7-27-8-17** SW/NE SECTION 27, T8S, R17E **DUCHESNE COUNTY, UTAH**

ONSHORE ORDER NO. 1

<u>DRILLING PROGRAM</u>

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta Green River

0' - 1640'

1640'

Wasatch 6500'

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:

Green River Formation 1640' - 6500' - Oil

PROPOSED CASING PROGRAM 4.

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Please refer to the Monument Butte Field SOP. See Exhibit "F".

TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS: 6.

Please refer to the Monument Butte Field SOP.

7. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Please refer to the Monument Butte Field SOP.

8. TESTING, LOGGING AND CORING PROGRAMS:

Please refer to the Monument Butte Field SOP.

9. <u>ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:</u>

The anticipated maximum bottom hole pressure is 2000 psi. It is not anticipated that abnormal temperatures will be encountered.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Monument Butte Field SOP.

RECEIVED

MAR 0 9 2001

DIVISION OF OIL, GAS AND MINING

INLAND PRODUCTION COMPANY GREATER BOUNDARY #7-27-8-17 SW/NE SECTION 27, T8S, R17E DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. EXISTING ROADS

See attached Topographic Map "A"

To reach Inland Production Company well location site Greater Boundary #7-27-8-17 located in the SW 1/4 NE 1/4 Section 27, T8S, R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles \pm to the junction of this highway and UT State Hwy 53; proceed southerly along Hwy 53 - 9.1 miles \pm to the beginning of the proposed access road to the east; proceed east and then south 3.5 mile \pm along the proposed access road to the proposed well location.

2. PLANNED ACCESS ROAD

See Topographic Map "B" for the location of the proposed access road.

3. LOCATION OF EXISTING WELLS

Refer to Exhibit "D".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

5. LOCATION AND TYPE OF WATER SUPPLY

Please refer to the Monument Butte Field SOP. See Exhibit "C".

6. SOURCE OF CONSTRUCTION MATERIALS

Please refer to the Monument Butte Field SOP.

7. <u>METHODS FOR HANDLING WASTE DISPOSAL</u>

Please refer to the Monument Butte Field SOP.

8. <u>ANCILLARY FACILITIES</u>

Please refer to the Monument Butte Field SOP.

RECEIVED

MAR 0 9 2001

DIVISION OF OIL, GAS ALL MINING

9. <u>WELL SITE LAYOUT</u>

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

10. PLANS FOR RESTORATION OF SURFACE

Please refer to the Monument Butte Field SOP.

11. SURFACE OWNERSHIP - Bureau Of Land Management

12. OTHER ADDITIONAL INFORMATION

The Archaeological and Paleontological Resource Surveys for this area are attached.

Inland Production Company requests a 60' ROW for the Greater Boundary #7-27-8-17 to allow for construction of a 6" gas gathering line, and a 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."**

Inland Production Company also requests a 60' ROW be granted for the Greater Boundary #7-27-8-17 to allow for construction of a 3" steel water injection line and a 3" poly water return line. **Refer to Topographic Map "C."**

13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

<u>Representative</u>

Name:

Jon Holst

Address:

2507 Flintridge Place Fort Collins, CO 80521

Telephone:

(970) 481-1202

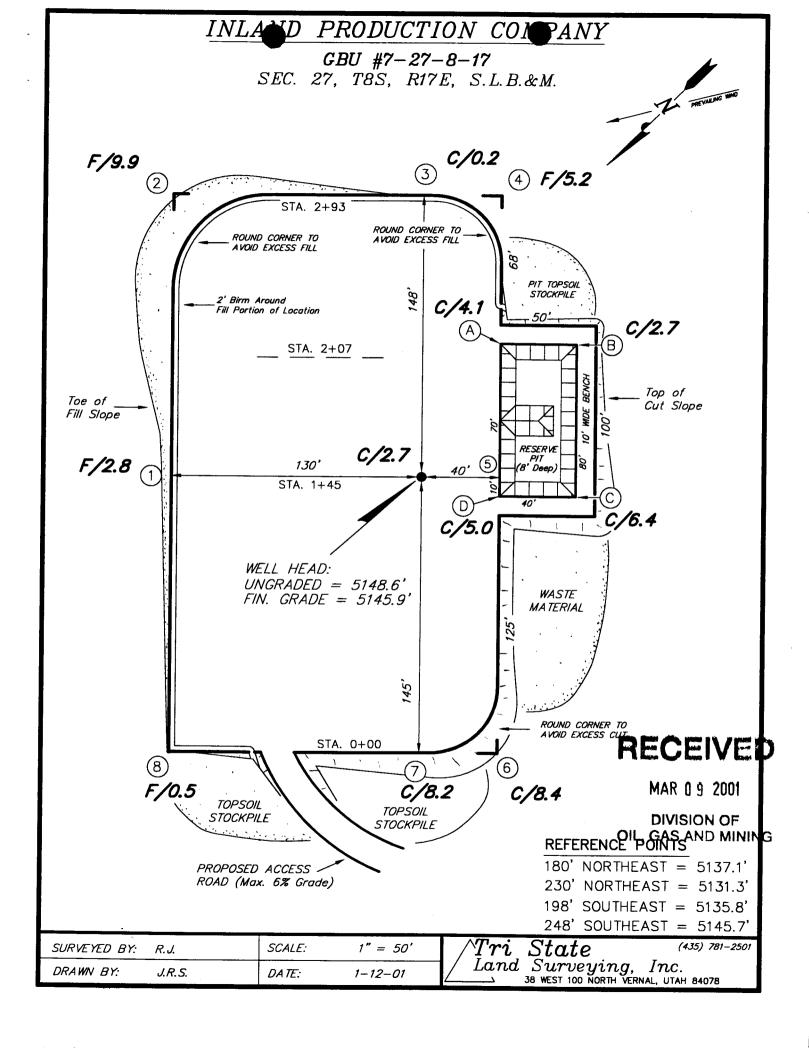
Certification

Please be advised that INLAND PRODUCTION COMPANY is considered to be the operator of well #7-27-8-17 SW/NE Section 27, Township 8S, Range 17E: Lease UTU-76241 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Inland Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Date

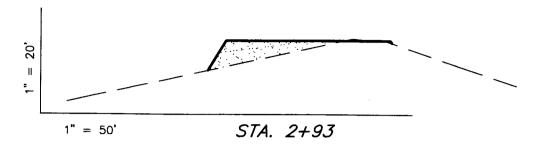
on Holst ermitting Agent RECEIVED

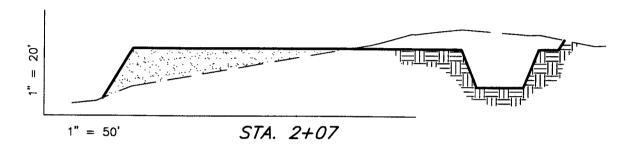


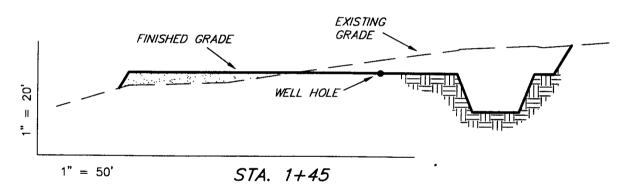
INLAND PRODUCTION COMPANY

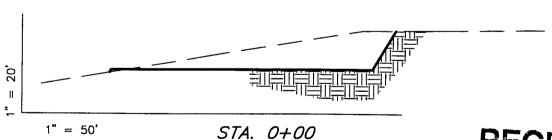
CROSS SECTIONS

GBU #7-27-8-17









APPROXIMATE YARDAGES

CUT = 3,630 Cu. Yds.

FILL = 3,630 Cu. Yds.

PIT = 640 Cu. Yds.

6" TOPSOIL = 1,020 Cu. Yds.

RECEIVED

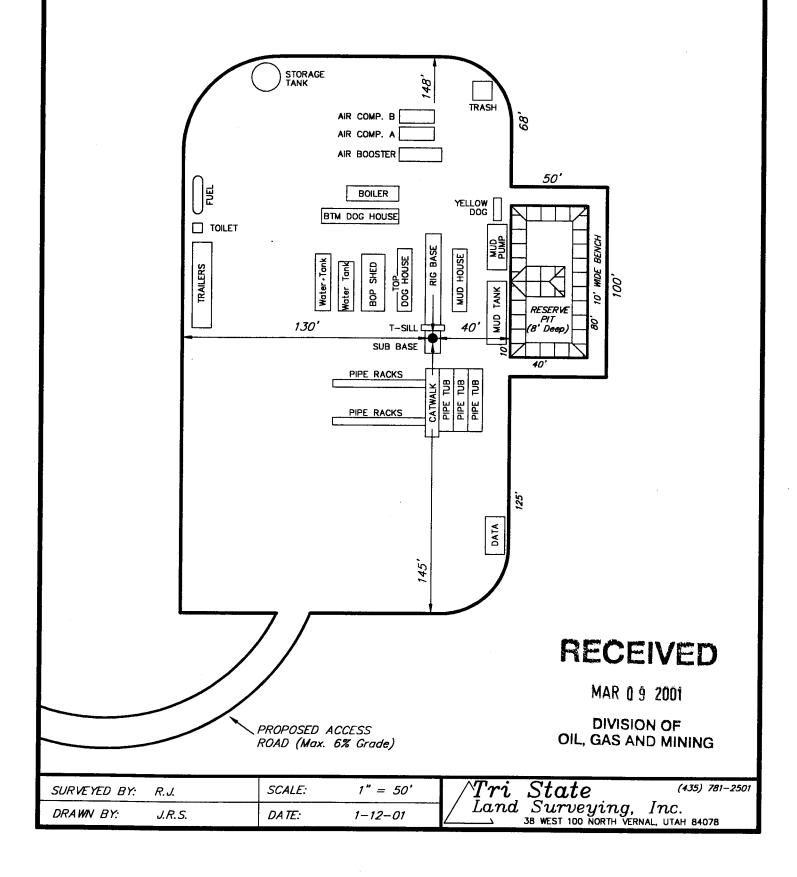
MAR 0 9 2001

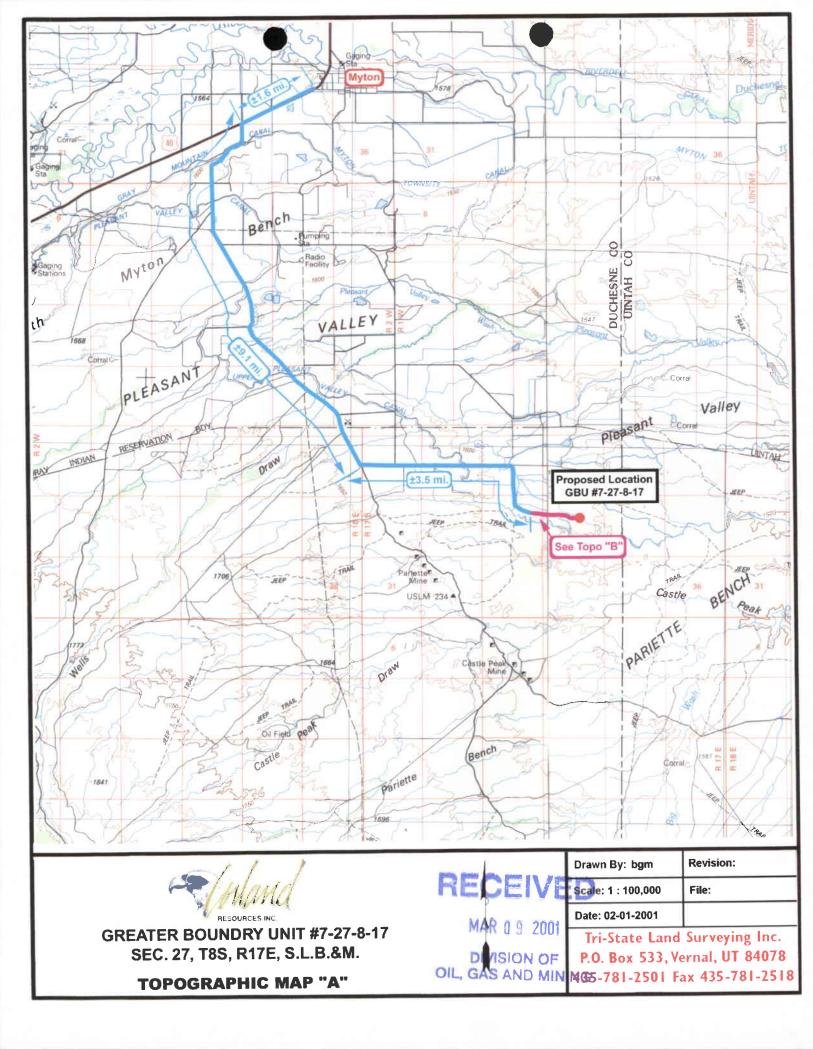
DIVISION OF OIL, GAS AND MINING

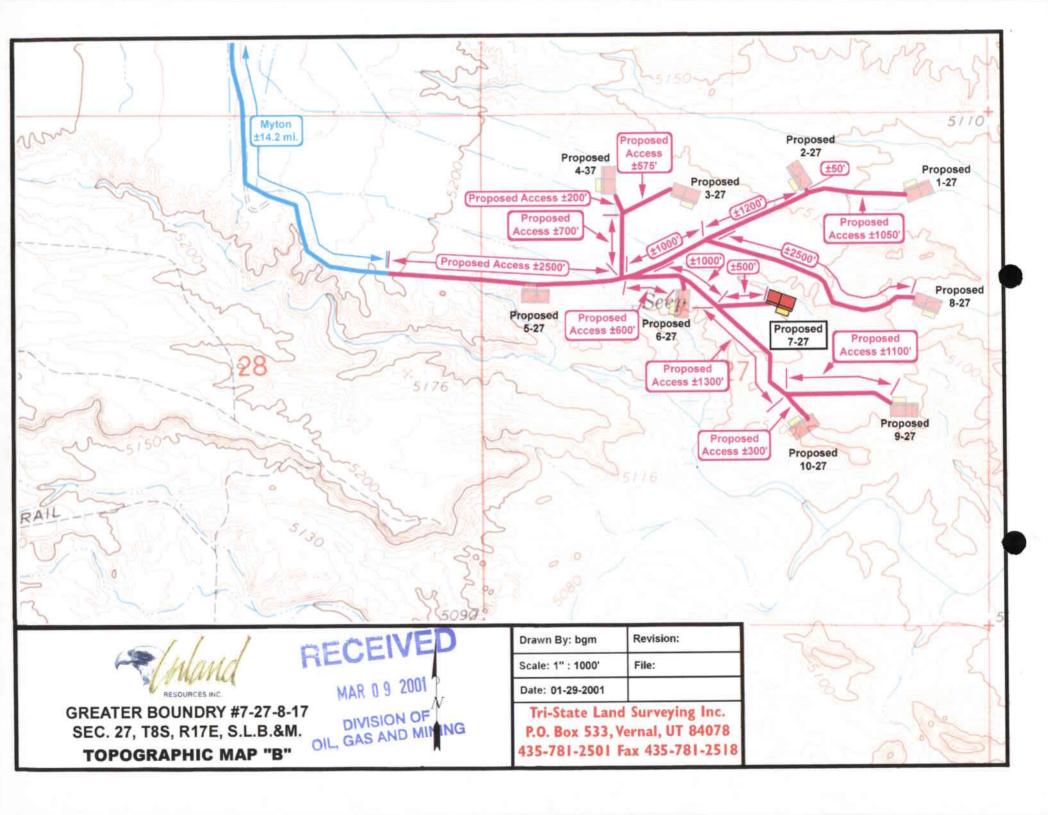
| SURVEYED BY: | R.J. | SCALE: | 1" = 50' | /Tri State (435) 781-2501 |
|--------------|--------|--------|----------|---|
| DRAWN BY: | J.R.S. | DATE: | 1-12-01 | Land Surveying, Inc. 38 WEST 100 NORTH VERNAL, UTAH 84078 |

INLAND PRODUCTION COMPANY

TYPICAL RIG LAYOUT GBU #7-27-8-17







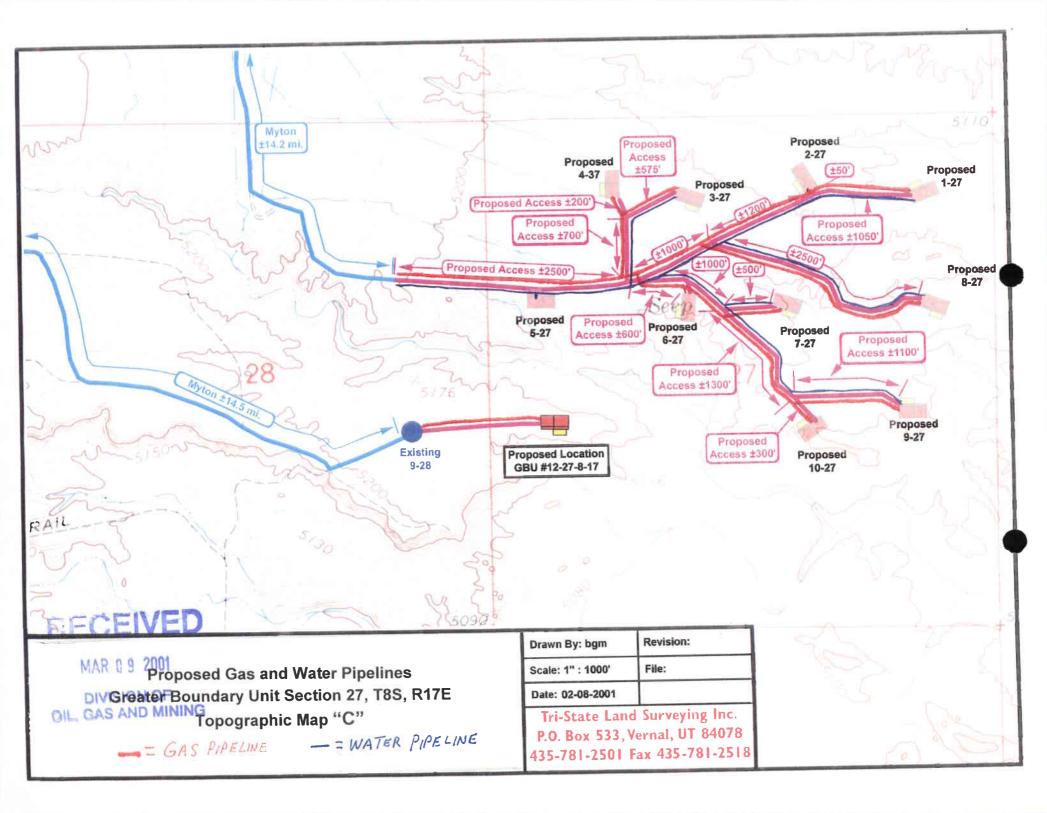
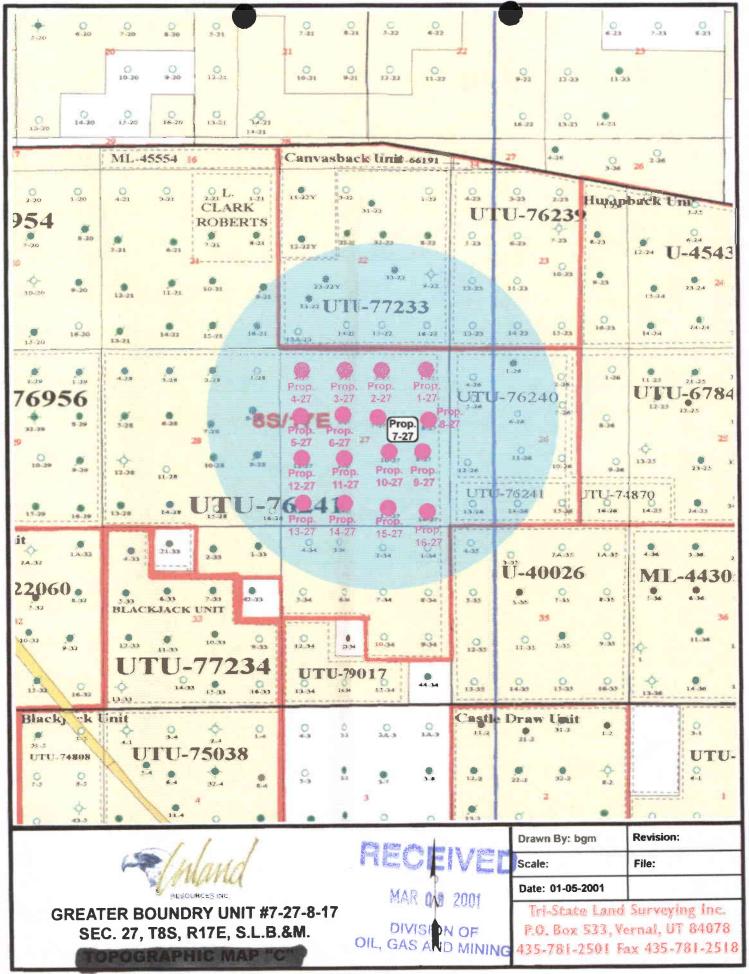
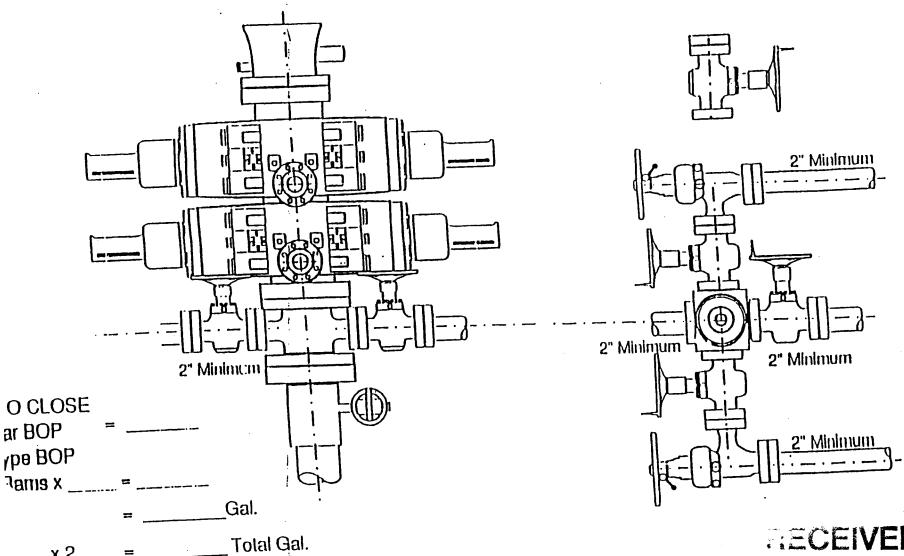


EXHIBIT "C" . . **♦** • • • **.**‡ Well Categories 🖋 INJ **\Q** → SWD ф OIL → DRY φ ✓ SHUTIN . 💠 SUSPENDED ABND Injection Stations • Unit Sections FCEIVED MAR 0 9 2001 418 17th Street State 700 Deserve, Coloredo 20282 Preser (2027-1973-0102 DIVISION OF CIL. GAS AND MINING φ UINTA BASIN 0.5 0.5 Mies



2-M SYSTEM



..ECEIVED

MAR 0.9 2001

DIVISION OF OIL, GAS AND MINING

न्त्रांबीng off to the next higher Tinent of 10 gal. would require ...Gal. (total fluid & nitro volume)

x 2

EXHIBIT F

CULTURAL RESOURCE INVENTORY OF INLAND PRODUCTION'S WELLS DRAW 760 ACRE PARCEL IN PLEASANT VALLEY, DUCHESNE COUNTY, UTAH

by

Keith R. Montgomery and Sarah Ball

Prepared For:

Bureau of Land Management Vernal Field Office

Prepared Under Contract With:

Inland Production Company 2507 Flintridge Place Fort Collins CO 80521

Prepared By:

Montgomery Archaeological Consultants P.O. Box 147 Moab, Utah 84532

December 12, 2000

MOAC Report No. 00-102

United States Department of Interior (FLPMA)
Permit No. 00-UT-60122

State of Utah Antiquities Project (Survey)
Permit No. U-00-MQ-0731b

RECEIVED

MAR 0 9 2001

DIVISION OF OIL, GAS AND MINING

ABSTRACT

In November, 2000, a cultural resource inventory of a 760 acre parcel for well development including access roads and pipelines was performed by Montgomery Archaeological Consultants for Inland Production. The project area is situated in the Pleasant Valley region of the Uintah Basin, in the Wells Draw vicinity and includes four inventory areas; a 40 acre in the NE1/4 of the NE1/4 of Sec. 27, T 8S, R 16E; a forty acre in the SW1/4 of the SW1/4 of Sec. 23, T 8S, R 16E; a 40 acre in the NE1/4 of the SW1/4 of 23, T 8S, R 16E; and a 640 acre in Sec. 27, T 8S, R 17E. A total of 760 acres was inventoried for cultural resources located on public lands administered by the Bureau of Land Management (BLM), Vernal Field Office.

The archaeological survey resulted in the documentation of four historic temporary camps (42Dc1321, 42Dc1322, 42Dc1323, and 42Dc1324), two prehistoric temporary camps (42Dc1325 and 42Dc1355), six prehistoric lithic scatters (42Dc1347, 42Dc1348, 42Dc1349, 42Dc1350, 42Dc1353, and 42Dc1354), one prehistoric lithic and ceramic scatter (42Dc1352), one multicomponent site consisting of a prehistoric lithic scatter and historic trash scatter (42Dc1351), and 17 isolated finds of artifacts (IF-A through IF-Q). Five of these sites are recommended as eligible to the NRHP: 42Dc1325, 42Dc1347, 42Dc1348, 42Dc1351, and 42Dc1355. Site 42Dc1325 is a prehistoric temporary camp with a fire cracked rock feature. Sites 42Dc1347 and 42Dc1348 are lithic scatters located in aeolian dunes. Site 42Dc1351 is a lithic scatter and historic trash scatter, also located on aeolian dunes. Site 42Dc1355 is a prehistoric temporary camp with two hearth features. All of these sites are recommended as eligible under criterion (D), due to the potential for buried cultural remains. Additional investigations at the site could provide significant data concerning site function, chronology, subsistence, and material culture.

Four historic sites, 42Dc1321, 42Dc 1322, 42Dc1323 and 42Dc1324 represent temporary range camps having a limited range of cultural materials. Additional investigations at these sites would fail to provide information relevant to historic research domains of the area. The prehistoric sites, 42Dc1349, 42Dc1350, 42Dc1352, 42Dc1353 and 42Dc1354 are recommended as not eligible for NRHP inclusion since they have an absence of additional diagnostic artifacts or features. Further research of these sites would not provide pertinent information to the prehistory of the area. The isolated finds of artifacts are also considered not eligible to the NRHP since they lack additional research potential.

The eligible sites (42Dc1325, 42Dc1347, 42Dc1348, 42Dc1351 and 42Dc1355) need to be avoided by future development within the parcels. Based on adherence to this recommendation, a determination of "no historic properties affected" is recommended for this project pursuant to Section 106, CFR 800.

İ

RECEIVED

TABLE OF CONTENTS

| | RACT | ! |
|--|--|---|
| TABLE | OF CONTENTS | i i |
| LIST C | OF FIGURES | ii |
| INTRO | DDUCTION | 1 |
| DESC | RIPTION OF THE PROJECT AREA | 2 |
| SURV | EY METHODOLOGY | 7 |
| INVEN | ITORY RESULTS | 7 |
| | Sites | 7 |
| | Isolated Finds of Artifacts | . 20 |
| NATIC | NAL REGISTER OF HISTORIC PLACES EVALUATION | . 21 |
| MANA | GEMENT RECOMMENDATIONS | . 22 |
| REFE | RENCES CITED | . 23 |
| APPE | NDIX A: INTERMOLINTAIN ANTIQUITIES | |
| | COMPUTER SYSTEM (IMACS) SITE FORMS | . 25 |
| | | |
| | LIST OF FIGURES | |
| 1. | Inland Resources 120 Acre Inventory Area | 3 |
| 1. 2. | Inland Resources 120 Acre Inventory Area | 4 |
| 1. 2. 3. | Inland Resources 120 Acre Inventory Area | |
| 2. 3. 、 | Inland Resources 120 Acre Inventory Area | |
| 2. | Inland Resources 120 Acre Inventory Area Inland Resources 640 Acre Inventory Area Site overview photo 42Dc1325 Site map 42Dc1325 Rock Art Panel 1 42Dc1325 | 9 . 10 . 11 |
| 2. 3. 4. | Inland Resources 120 Acre Inventory Area Inland Resources 640 Acre Inventory Area Site overview photo 42Dc1325 Site map 42Dc1325 Rock Art Panel 1 42Dc1325 Site overview photo 42Dc1347 | |
| 2. 3. 4. 5. | Inland Resources 120 Acre Inventory Area Inland Resources 640 Acre Inventory Area Site overview photo 42Dc1325 Site map 42Dc1325 Rock Art Panel 1 42Dc1325 Site overview photo 42Dc1347 Site map 42Dc1347 | 9 . 10 . 11 . 12 . 13 |
| 2. 3. 4. 5. 6. | Inland Resources 120 Acre Inventory Area Inland Resources 640 Acre Inventory Area Site overview photo 42Dc1325 Site map 42Dc1325 Rock Art Panel 1 42Dc1325 Site overview photo 42Dc1347 Site map 42Dc1347 Site map 42Dc1348 | 9 . 10 . 11 . 12 . 13 |
| 2. 3. 4. 5. 6. 7. | Inland Resources 120 Acre Inventory Area Inland Resources 640 Acre Inventory Area Site overview photo 42Dc1325 Site map 42Dc1325 Rock Art Panel 1 42Dc1325 Site overview photo 42Dc1347 Site map 42Dc1347 Site map 42Dc1348 Site map 42Dc1351 | 9 . 10 . 11 . 12 . 13 . 14 |
| 2. 3. 4. 5. 6. 7. | Inland Resources 120 Acre Inventory Area Inland Resources 640 Acre Inventory Area Site overview photo 42Dc1325 Site map 42Dc1325 Rock Art Panel 1 42Dc1325 Site overview photo 42Dc1347 Site map 42Dc1347 Site map 42Dc1348 Site map 42Dc1351 Site overview photo 42Dc1351 | 9 . 10 . 11 . 12 . 13 . 14 . 16 |
| 2. 3. 4. 5. 6. 7. 8. 9. | Inland Resources 120 Acre Inventory Area Inland Resources 640 Acre Inventory Area Site overview photo 42Dc1325 Site map 42Dc1325 Rock Art Panel 1 42Dc1325 Site overview photo 42Dc1347 Site map 42Dc1347 Site map 42Dc1348 Site map 42Dc1351 | |

RECEIVED

INTRODUCTION

In November 2000, a cultural resource inventory was conducted by Montgomery Archaeological Consultants (MOAC) for Inland Production's Wells Draw 760 Acre Parcel in Pleasant Valley, Duchesne County, Utah. The project area is proposed for well development, access roads and pipelines. The survey was implemented at the request of Mr. John Holst, Permitting Agent, Inland Production Company. The project area occurs on land administered by the Bureau of Land Management (BLM), Vernal Field Office.

The objective of the inventory was to locate, document and evaluate any cultural resources within the project area pursuant to a determination of "no effect" to historic properties in accord with Section 106 of 36 CFR 800, the National Historic Preservation Act of 1966 (as amended). Also, the inventory was implemented to attain compliance with a number of federal and state mandates, including the National Environmental and Historic Preservation Act of 1969, the Archaeological and Historic Conservation Act of 1972, the Archaeological Resources Protection Act of 1979 and the American Indian Religious Freedom Act of 1978.

The fieldwork was performed by Keith R. Montgomery, Principal Investigator for Montgomery Archaeological Consultants, aided in the field by Stan Ferris, Jay Willans, and Michael Wolfe. The inventory was conducted under the auspices of U.S.D.I. (FLPMA) Permit No. 00-UT-60122 and State of Utah Antiquities Project (Survey) No. U-00-MQ-0731b.

A file search for previous projects and documented cultural resources was conducted by Keith Montgomery at the BLM Vernal Field Office on October 30, 2000 and at the Utah Division of State History on November 3, 2000. These consultations indicated that no archaeological projects have been conducted in the immediate project area. However, various archaeological projects have been completed nearby. Archeological-Environmental Research Corporation (AERC) completed two surveys for Equitable Resources Energy Company in 1996, in T 9S, R 16E, Sec. 1 and 2, and T 8S, R 17E, Sec. 36, locating no new cultural resources (Hauck 1996a; 1996b). In 1997 AERC conducted an inventory for Inland Production in T 9S, R 17E Sec. 15 and 22, locating no cultural resources (Hauck and Hadden 1997). Sagebrush Consultants performed an inventory in 1997 for Inland Production in T 8S, R 17E, Sec. 28 and 29, documenting six prehistoric sites (42Dc1134 through 42Dc1139) and one historic site (42Dc1140) (Ellis 1997). In 1998 Sagebrush conducted another survey for Inland Production in T 9S, R 17E, Sec 3 and 10, locating two prehistoric sites (42Dc1191 and 42Dc1192), and one historic site (42Dc1190) (Polk 1998). JBR Environmental Consultants completed a survey for Inland Resources in 1998 situated in T 9S, R 17E, Sec. 1, locating no archaeological sites (Crosland and Billat 1998). In 1998 AERC performed an inventory for Inland Resources in several nearby sections, documenting 28 prehistoric sites (42Dc1149, 42Dc1150, 42Dc1155 through 42Dc1166, 42Dc1171, 42Dc1174 through 42Dc1177, 42Un 2532 through 42Un2538, 42Un2552, 42Un2566) (Hauck 1998). In summary, no archaeological sites have been documented in the immediate project area, however, a number of inventories near the project area have been performed, resulting in the documentation of both prehistoric and historic cultural resources.



DESCRIPTION OF PROJECT AREA

Environmental Setting

The project area lies in the Pleasant Valley area of the Uinta Basin, to the south of Myton, Utah. The inventory area consists of a 760 acre parcel, allocated for development of well locations, access roads and pipelines. Three adjoining 40 acre parcels occur to the southeast of Wells Draw, approximately 6.5 miles southwest of Myton, Utah. The legal description for these parcels is T 8S, R 16E, Sections 23 and 27 (Figure 1). A 640 acre parcel lies about 4.5 miles to the east of this, along both sides of a tributary of Pariette Draw. The legal description for this parcel is T 8S, R 17E, Section 27 (Figure 2). Topographically, this area consists of highly dissected sandstone and mudstone rock formations and broad sandy silt ridges (Stokes 1986). The elevation ranges from 5550 to 5020 feet a.s.l. Pariette Draw is a major water source in the area, as is Wells Draw although it is ephemeral. The project area lies within the Upper Sonoran life zone, dominated by a shadscale community intermixed with low sagebrush, snakeweed, prickly pear cactus and a variety of low grasses. A riparian zone exists along the washes, an includes cottonwood, Russian olive, cattail, and tamarisk. Modern disturbances to the landscape include well locations, access roads, pipelines, and livestock grazing.

Cultural Overview

The cultural-chronological sequence represented in the study area includes the Paleoindian, Archaic, Fremont, Protohistoric, and Euro-American stages. The earliest inhabitants of the region are representative of the Paleoindian stage (ca. 12,000-8,000 B.P.). This stage is characterized by the adaptation to terminal Pleistocene environments and by the exploitation of big game fauna. The presence of Paleoindian hunters in the Uinta Basin region is implied by the discovery of Clovis and Folsom fluted points (ca.12,000 B.P. - 10,000 B.P.), as well as the more recent Plano Complex lanceolate points (ca. 10,000 B.P. - 7,000 B.P.). However, no such artifacts have been recovered in stratigraphic or chronometrically controlled contexts in northeastern Utah.

The Archaic stage (ca. 8,000 B.P. - 1,500 B.P.) is characterized by peoples depending on a foraging subsistence strategy, seasonally exploiting a wide spectrum of plant and animal species in different ecozones. The shift to an Archaic lifeway was marked by the appearance of new projectile point types perhaps reflecting the development of the atlatl in response to a need to pursue smaller and faster game (Holmer 1986). In the Uinta Basin, evidence of widespread Early Archaic exploitation is relatively sparse compared to the subsequent Middle and Late Archaic periods. Early Archaic (ca. 6000-3000 B.C.) sites in the basin include sand dune sites and rockshelters clustered mainly in the lower White River drainage as well as along the Green River in the Browns Park and Flaming Gorge (Spangler 1995:373). Projectile points recovered from Uinta Basin contexts include Pinto Series, Humboldt, Elko Series, Northern Side-notched, Hawken Side-notched, Sudden Side-notched and Rocker Base Side-notched points. Excavated sites in the area with Early Archaic components include Deluge Shelter in Dinosaur National Monument, and open campsites along the Green River and on the Diamond Mountain plateau (Spangler 1995:374). The Middle Archaic period (ca. 3000-500 B.C.) is characterized by improved climatic conditions and increased human populations on the northern Colorado Plateau. Several stratified Middle Archaic sites have been excavated and dozens of sites have been documented in the Uinta Basin. Middle Archaic sites in the area reflect cultural influences from the Plains, although a Great Basin and/or northern Colorado Plateau influence is represented in the continuation of the Elko



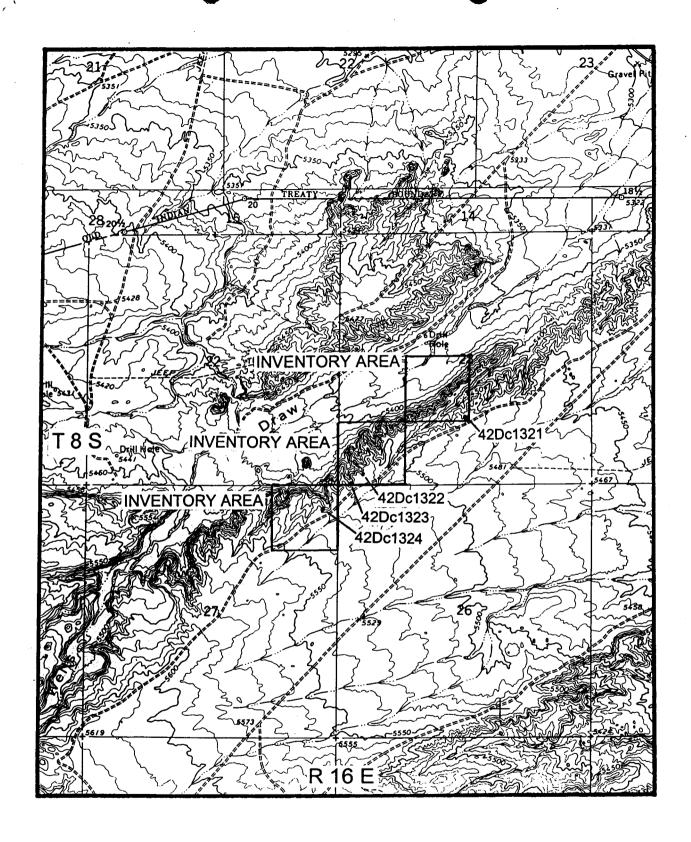


Figure 1. Inventory Area of Inland Production's Wells Draw 760 Acre Parcel in Pleasant Valley with Cultural Resources, Duchesne County, UT. USGS 7.5' Myton SE, UT 1964. Scale 1:24000.

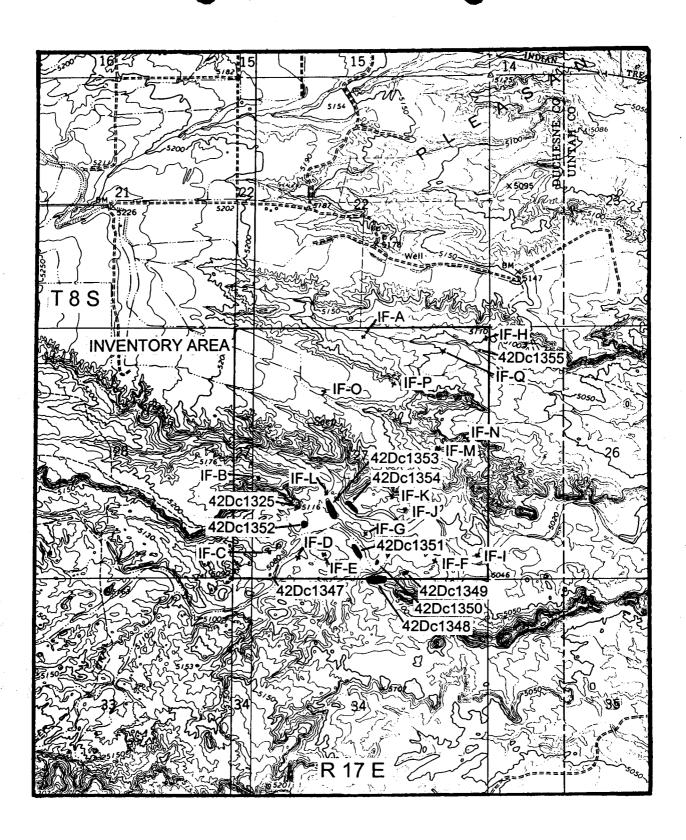


Figure 2. Inventory Area of Inland Production's Wells Draw 760 Acre Parcel in Pleasant Valley with Cultural Resources, Duchesne County, UT. USGS 7.5' Pariette Draw SW, UT 1964. Scale 1:24000.

1

Series projectile points. Subsistence data from Middle Archaic components indicate gathering and processing of plants as well as faunal exploitation (e.g., mule deer, antelope, bighorn sheep, cottontail rabbit, muskrat, prairie dog, beaver and birds). The Late Archaic period (ca. 500 B.C.-A.D. 550) in the Uinta Basin is distinguished by the continuation of Elko Series atlatl points with the addition of semi-subterranean residential structures at base camps. By about A.D. 100, maize horticulture and Rose Springs arrow points had been added to the Archaic lifeway. In the Uinta Basin, the earliest evidence of Late Archaic architecture occurs at the Cockleburr Wash Site (42Un1476) where a temporary structure, probably a brush shelter, yielded a date of 316 B.C. The structure was probably associated with seasonal procurement of wild floral resources gathered along Cliff Creek (Tucker 1986).

The Formative stage (A.D. 500-1300) is recognized in the area by the Uinta Fremont as first termed by Marwitt (1970). This stage is characterized by reliance upon domesticated corn and squash, increasing sedentism, and in its later periods, substantial habitation structures, pottery, and bow and arrow weapon technology. Based on the evidence from Caldwell Village, Boundary Village, Deluge Shelter, Mantles Cave and others, the temporal range of the Uinta Fremont appears to be from A.D. 650 to 950. This variant is characterized by shallow, saucer-shaped pithouse surface structures with randomly placed postholes and off-center firepits, some of which were adobe-rimmed. Traits considered unique or predominate to the Uinta Basin include calcite-tempered pottery, two-handled wide-mouth vessels, Utah type metates, the use of gilsonite for pottery repair, settlement on tops of buttes and large-shouldered bifaces (Shields 1970).

Archaeological evidence suggests that Numic peoples appeared in east-central Utah at approximately A.D. 1100 or shortly before the disappearance of Formative-stage peoples (Reed 1994). The archaeological remains of Numic-speaking Utes consist primarily of lithic scatters with low quantities of brown ware ceramics, rock art, and occasional wickiups. The brown ware ceramics appear to be the most reliable indicator of cultural affiliation, as Desert Side-notched and Cottonwood Triangular points were manufactured by other cultural groups beside the Ute (Horn, Reed, and Chandler 1994:130). The Ute appear to have been hunter and gatherers exploiting various fauna and flora resources. According to macrobotanical and faunal data from dated components deer, elk, pronghorn, bison, and small game were acquired (Reed 1994:191). Plant materials thought to have been exploited for food include goosefoot, grass seeds, pinyon nuts, juniper berries, squawbush berries and leaves, hackberry seeds and possibly saltbush seeds, knotweed, chokecherry, and chickweed (Ibid 191).

The cultural history of the Eastern Ute, comprising the bands living east of the Green River, has been divided into four phases (Reed 1988). The earliest and most tenuous phase is the Chipeta Phase, dated between ca. 1250 and 1400. Diagnostic artifacts include Desert Sidenotched, Cottonwood Triangular, and small corner-notched arrow points and possibly Shoshonean knives. The Canalla phase (ca. A.D. 1400-1650) designates the period between the appearance of well-dated Uncompahgre brown ware ceramics and the adoption of an equestrian lifeway. Diagnostic artifacts include Uncompahgre Brown Ware ceramics, Desert Side-notched and Cottonwood Triangular points, and Shoshonean knives. The pedestrian hunter and gatherers probably lived in wickiups. Near the end of the phase, some groups may have obtained trade items from Spanish settlements in New Mexico (Horn, Reed, and Chandler 1994:131). The Antero phase (ca. A.D. 1650-1881) represents a shift to a fully equestrian lifestyle and integration of Euroamerican trade goods into Ute material culture. The horse permitted hunting of bison on the Plains and led to an increase in the importance of raiding for economic gain (Ibid 131). Euroamerican trade goods became important, and tepees as well as wickiups were inhabited.

RECEIVED

The early Utes in Uintah County were Uinta-ats, a small band of a few hundred members (Burton 1996:20). In pre-horse days, Ute family groups lived largely independently of others with key gathering, hunting, and fishing sites being communal and granted to all, within both the local and extralocal Ute communities (Ibid 340). According to Smith's (1974) informants both deer and buffalo were important game for the White River Ute band. Before the buffalo became extinct in the Uintah Basin in the 1830s, the Ute would make trips northeast of Fort Bridger in the vicinity of what is now Rock Springs and Green River, Wyoming using the horse to surround and drive the buffalo over a precipice (Callaway, Janetski, and Stewart 1986; Smith 1974). All Ute groups made tripod or conical houses with a three or four-pole foundation and a circular ground plan some 10 to 15 feet in diameter with covering brush or bark.

The first Euro-Americans in the Uinta Basin were Spanish missionaries, traveling between Sante Fe, New Mexico up through western Colorado, towards the Utah Valley, and on to California. In 1776, under the leadership of Fray Francisco Atanasio Dominguez and Fray Silvestre Velez de Escalante, the Spanish commenced to explore a northern route from Santa Fe to the garrison of Monterey on the California coast (Spangler et al. 1995). Euro-American traders were another early factor in the history of the Uinta Basin. Some of these were Spaniards, who continued to visit the region until the Mexican war of independence in 1821, when most Spanish were expelled from the Southwest. It was the beaver trade in the early part of the nineteenth century, that cemented trade with Ute and Shoshone in the area, and resulted in the establishment of trading posts along the major rivers in the area, including the Duchesne, Green, and Uinta (Spangler et al. 1995).

The settlement of the Uinta Basin differs from that of much of Utah in that early settlement in the area occurred around Indian "agencies" assigned to the Uinta and Ouray Reservations, rather than under the direction of the Mormon church (Spangler et al. 1995). These agencies consisted of cabins and a trading post with farms cropping up around the agency, and were directed by a government Indian agent. The first agency was constructed at the mouth of Daniels Canyon in 1864, and was moved several times before 1868. The Mormon church, under Brigham Young consigned survey parties to the Uinta Basin in the early 1860s, determining that the land was not very suitable for cultivation. For this reason, Mormon occupation of the area occurred later than in many parts of the state. By 1876, only a handful of ranchers, had settled the area, to be joined that year by a group of Mormons. They formed a settlement around the ranch of Pardon Dodds, an Indian agent, located in Dry Fork Canyon; later to become known as Old Ashley Town. Another small group of Mormon settlers arrived in 1878, camping near the confluence of Ashley Creek, and naming their settlement Incline. In 1878, additional Mormon settlers ventured into the area; locating near what is today Vernal. With agrarian pursuits being the focus of the majority of the Mormon communities in the region, water became a leading priority. In 1880 the Rock Point Canal and Irrigation Company built a six-mile long canal from the mouth of Ashely Canyon to various homesteads in the region. The Ashley Upper Irrigation Canal was constructed in 1880 with the purpose of yielding water from the Ashley Creek to Bingham Corner. Settlement increased rapidly, and many different water projects were initiated. Most of the canals and reservoirs in the region were built after 1905 by the Uintah Irrigation Project and the Dry Gulch Irrigation Company (Ibid 809-12).

RECEIVED

SURVEY METHODOLOGY

An intensive pedestrian survey was performed for this project which is considered 100% coverage. The 760 acre parcel was examined for cultural resources by the archaeologists walking parallel transects spaced no more than 10 m apart. Ground visibility was considered good. A total of 760 acres was inventoried on BLM administered land, Vernal Field Office.

Cultural resources were recorded as an archaeological site or isolated find of artifacts. Archaeological sites were defined as spatially definable areas with features and/or ten or more artifacts. Sites were documented by the archaeologists walking transects across the site, spaced no more than 3 m apart, and marking the locations of cultural materials with pinflags. This procedure allowed clear definition of site boundaries and artifact concentrations. At the completion of the surface inspection, a Brunton compass was employed to point-provenience diagnostic artifacts and other relevant features in reference to the site datum, a steel rebar stamped with a temporary site number. Archaeological sites were plotted on a 7.5' USGS quadrangle, photographed, with site data entered on an Intermountain Antiquities Computer System (IMACS, 1990 version) inventory form (Appendix A). Isolated finds are defined as individual artifacts or light scatter of items, which lack sufficient material culture to warrant IMACS forms, or to derive interpretation of human behavior in a cultural and temporal context. All isolated artifacts were plotted on a 7.5' USGS map and are described in this report.

INVENTORY RESULTS

The inventory of Inland Production's 760 acre parcel in Pleasant Valley resulted in the documentation of 14 newly-found archaeological sites (42Dc1321, 42Dc1322, 42Dc1323, 42Dc1324, 42Dc1325, 42Dc1347, 42Dc1348, 42Dc1349, 42Dc1350, 42Dc1351, 42Dc1352, 42Dc1353, 42Dc1354, and 42Dc1355), and 17 isolated finds of artifacts (IF-A through IF-Q).

Archaeological Sites

Smithsonian Site No.: 42Dc1321 Temporary Site No.: 610-3

<u>Legal Description:</u> T 8S, R 16E, Sec. 23 <u>Jurisdiction:</u> BLM, Vernal Field Office

Description: This is a historic temporary camp dating between 1917 and 1945. It consists of a tin can scatter and a concentration of axe-cut wood fragments, possibly representing a firewood pile. The pile measures 4 meters by 2 meters and is located in the western portion of the site. The majority of artifacts are tin cans. These are dominated by hole in top evaporated milk cans. Of these, seven are stamped with "PUNCH HERE" (1935-1945). Eight sanitary cans are observed, including: a cut-around commodity stamped with an oval on the base, a cut-around commodity, a smashed, cut-around commodity with "CANCO" on the base (ca. 1923), a lard bucket, and a pry-lid commodity can. A rectangular pepper can, a key-opened coffee can, a coffee can lid, a piece of 3 1/2" horse tack, some bailing wire, and black rubber shoe sole fragments are also observed. The site occurs in an area of shallow soil and is evaluated as not eligible to the NRHP since it lacks potential for additional functional or temporal information.



Smithsonian Site No.: 42Dc1322 Temporary Site No.: 610-4

<u>Legal Description:</u>
<u>Jurisdiction:</u>
T. 8S, R. 16E, Sec. 23

<u>BLM, Vernal District Office</u>

Description: This is a historic temporary camp dating between 1910 and 1950. The majority the artifacts are tin cans. These are dominated by five crushed, hole in top evaporated milk cans with two concentric raised rings on top and four hinged lid tobacco tins. Most of the other cans are sanitary and include: a cut-around commodity can lid; a crushed can fragment stamped with "840813" on the base; a crushed, cut-around sanitary can; a tuna or meat can; a pry-lid baking powder tin with a bail handle; and a 3/4" wide strip of a key-opened coffee can lid. One cutaround, hole in cap can is observed. Nine pieces of glass are noted, including: two rim fragments of a clear glass domestic vessel; three pieces of a small purple vessel of undetermined function; and four pieces of a brown patent medicine bottle with a patent finish and a linear design embossed on the shoulder. Also observed are a 2" long cartridge shell stamped with "Peters 25-36", one piece of bailing wire, a chunk of gilsonite, and a modern aluminum ointment tube with a screw lid. Two possible firewood collection piles are observed. Feature 1 (F-1) is a 7 meter x 8 meter concentration of 75+ pieces of axe-cut juniper wood. Feature 2 (F-2) is a smaller (4 meter x 4 meter) sparse concentration of axe-cut juniper fragments. The site is located in an area of shallow soil and is evaluated as not eligible to the NRHP since it lacks potential for additional functional or temporal information.

Smithsonian Site No.: 42Dc1323 Temporary Site No.: 610-5

<u>Legal Description:</u> T 8S, R 16E, Sec. 23 <u>Jurisdiction:</u> BLM, Vernal Field Office

Description: This is a historic temporary camp consisting of a light scatter of glass and tin cans along with a small concentration of axe-cut juniper pieces, possibly a firewood collection pile. Approximately 30 pieces of clear glass are observed, including 10 fragments of a tubular-shaped Alka-Seltzer container, 10 pieces each of two different small screw finish bottles; one with a rectangular base embossed with "DES Pat 35925" and an unidentified trademark, and the other with a round base. The majority of the tin cans are hinged-lid tobacco tins (n=7). Other tin cans include: a crushed, sanitary, cut-around; a crushed, sanitary cut-around stamped with an oval shape on the top; a crushed, sanitary, cut-around fruit can; and a 1 lb. key-opened coffee can. Also observed are: an alarm clock back, a modern toothpaste tube and four pieces of bailing wire. The site is located in an area of shallow soil and lacks features with potential for depth, and hence is evaluated as not eligible to the NRHP since it lacks potential for additional functional or temporal information.

Smithsonian Site No.: 42Dc1324 Temporary Site No.: 610-6

<u>Legal Description:</u>
<u>Jurisdiction:</u>
T 8S, R 16E, Sec. 27

BLM, Vernal Field Office

<u>Description:</u> This is a historic temporary camp dating between 1908 and 1945, and consists of a tin can scatter, rock alignment, and firewood pile, along with a few other artifacts. The majority of artifacts are tin cans. These are dominated by 14 evaporated milk cans, four of which are stamped with "PUNCH HERE" (1935-1945). Other tin cans include: four crushed, hinged-lid tobacco tins; a crushed Hershey Cocoa tin with a pry-lid; six cut-around sanitary cans of various

8

RECEIVED

sizes; and three galvanized oil or gas cans with screw-lids and spouts, that have had the bottoms cut out. Also observed are: two pieces of clear window glass; six pieces of bailing wire; a piece of black leather with a round-head nail attached; three pieces of a leather boot including nine eyelets and four fast loops; and a center fire cartridge marked with "WRA Co 44 W.C.F" (post 1908). Feature 1 (F-1) is a rock alignment of unknown function, consisting of two sandstone rocks (20"x15" average size), and a sandstone slab (2" thick). A concentration of small, axe-cut pieces of juniper in an area measuring 4 meters x 3 meters is observed, as is a 8 meter x 16 meter area that exhibits an abundance of weeds, and is notably devoid of native plants, and may have been used for grazing.

Smithsonian Site No.: 42Dc1325 Temporary Site No.: 610-7

<u>Legal Description:</u>

T 8S, R 17E, Sec. 27

Jurisdiction:

BLM, Vernal Field Office

<u>Description:</u> This is a temporary camp located around an outcrop of large boulders (Figures 3 and 4). The site consists of a fire cracked rock concentration and 29 lithic tools. The majority of tools are unprepared chert cores. Other tools include: four hammerstones, one biface, three Stage I bifaces, three manos or mano fragments, and a slab metate. Also observed are approximately 150 pieces of lithic debitage with all reduction stages common. The materials utilized include various kinds of chert along with siltstone and quartzite. Feature 1 is a concentration of fire cracked rock located on the east side of a large boulder. The feature includes approximately 75 fire cracked and oxidized medium grained sandstone rock fragments (up to 25x15x10cm) scattered in an irregular configuration. No charcoal is visible, however a one meter diameter ash stain is apparent. A shallow (30 cm deep) drainage intersects the east margin of the feature. A petroglyph panel, possibly Archaic, is observed on a large boulder in the central portion of the site (Figure 5). The panel includes two solidly pecked figures, an anthropomorph and an elk, and measures 1.2 meters in length by 78 cm in height. A historic inscription occurs on a large boulder, incised with: "V O NEILSON", "1932", "VICK ROSS", "LEON".



Figure 3. 42Dc1325. Site overview. Photo is viewed to the southeast. Roll 610/3:11.

MAR © 9 2001 DIVISION OF

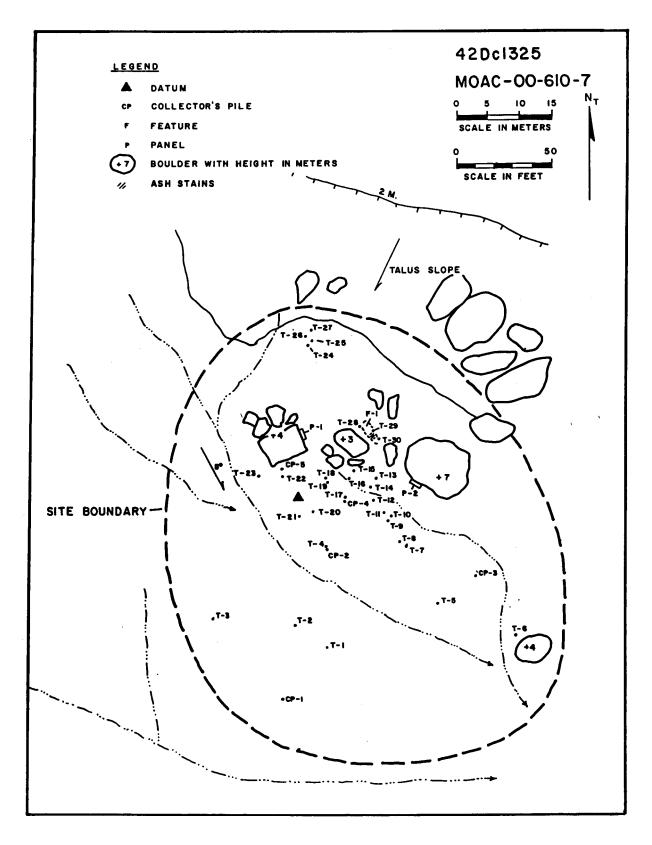


Figure 4. Site Map 42Dc1325.

RECEIVED

MAR 0 9 2001

DIVISION OF OIL, GAS AND MINING

OIL, GAS AND MINING

Smithsonian Site No.: 42Dc1347 Temporary Site No.: 731-1

Legal Description: T 8S, R 17E, Sec. 27 Jurisdiction: BLM, Vernal Field Office

Description: The site is a lithic scatter of unknown cultural affiliation, located in a valley, within an area of sand dunes (Figures 6 and 7). Artifacts are dominated by secondary reduction stage flakes of various chert materials (n=118). The majority of flakes are located in a concentration towards the central portion of the site, as well as in two collector's piles, one of which contains 10 chert flakes, and the other 20 chert flakes. Several tools are observed, including two Stage II bifaces, a Stage III biface, two unprepared cores, and a single-handed cobble mano. An oxidized sandstone rock is located approximately one meter to the northwest of Tool 4. Due to the location in sand dunes, the site exhibits good potential for buried cultural remains and is recommended as eligible under criterion (D).

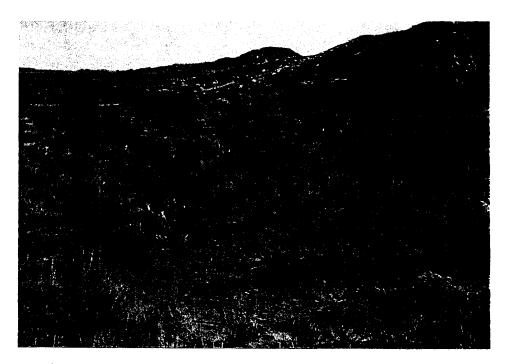


Figure 6. 42Dc1347. Site overview. Photo is viewed to the east. Roll 731/1:4.

42Dc1348 Smithsonian Site No.: 731-2 Temporary Site No.:

Legal Description: T 8S, R 17E, Sec. 27 Jurisdiction: BLM, Vernal Field Office

Description: The site is a lithic scatter of unknown cultural affiliation, located in a valley, within an area of sand dunes (Figure 8). Artifacts at the site are dominated by secondary reduction stage flakes of various chert materials, with all other reduction stages represented (n=165). Tools include: five unprepared cores, three scrapers, two choppers, a Stage I and Stage II biface, a single-handed mano, two slab metates, and a ground stone fragment. Due to the location in sand dunes, the site exhibits good potential for buried cultural remains and is recommended as eligible under criterion (D). RECEIVED

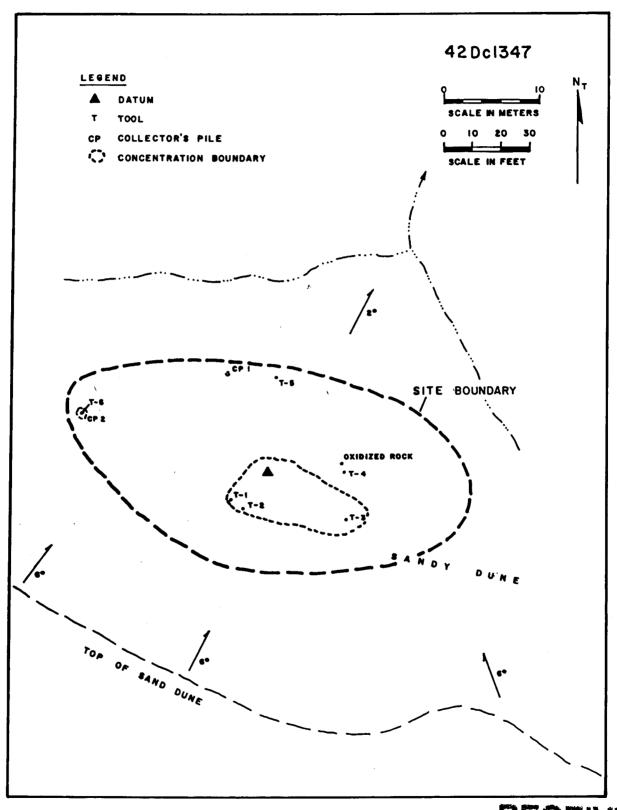


Figure 7. Site map 42Dc1347.

RECEIVED

MAR 0 9 2001

DIVISION OF OIL, GAS AND MINING

RECEIVED

Smithsonian Site No.: 42Dc1349 Temporary Site No.: 731-3

Legal Description: T 8S, R 17E, Sec. 27 Jurisdiction: BLM. Vernal Field Office

The site is a lithic scatter of unknown cultural affiliation, located on a terrace in a Description: valley, in an area of thin residual soils covered with a veneer of small rocks. Artifacts are dominated by secondary reduction stage flakes of various chert materials, with primary flakes also represented (n=48). Tools include: a scraper, a prepared core, an unprepared core, two Stage I biface fragments, and two utilized flakes. Due to its location on thin deposits of soil, and the lack of cultural features which would provide potential for depth of cultural remains, the site is recommended as not eligible to the NRHP.

Smithsonian Site No.: 42Dc1350 Temporary Site No.: 731-4

Legal Description: T 8S, R 17E, Sec. 27 Jurisdiction: **BLM**, Vernal Field Office

The site is a lithic scatter of unknown cultural affiliation, located on a terrace in a Description: valley, in an area of thin, residual soils covered with a veneer of small rocks. Artifacts are dominated by secondary reduction stage flakes of various chert materials, with primary flakes also represented (n=48). Tools include: a scraper, a prepared core, an unprepared core, two Stage I biface fragments, and two utilized flakes. Due to its location on thin deposits of soil, and the lack of cultural features which would provide potential for depth of cultural remains, the site is recommended as not eligible to the NRHP.

Smithsonian Site No.: 42Dc1351 Temporary Site No.: 731-5

Legal Description: T 8S, R 17E, Sec. 27 Jurisdiction: **BLM. Vernal Field Office**

Description: This is a multi-component site consisting of a lithic scatter of unknown cultural affiliation and a historic trash scatter, located on a sand dune above an intermittent stream (Figures 9 and 10). Lithic debitage is dominated by secondary reduction stage flakes of various chert materials, with all reduction stages represented (n=27). Tools include an unprepared core, a spent core and a Stage II biface fragment. Feature 1 (F-1) is a concentration of 30+ fire cracked tabular-shaped sandstone rocks (up to 15x10x2cm). It is located in a 1.6 m by 1.0 m area and is eroding from a dune. No ash staining or charcoal is observed. Two sandstone slabs (up to 30x25cm) are located approximately two meters to the northwest of the feature. The historic artifacts are limited to a scatter of tin cans, dominated by five hole in top evaporated milk can fragments, along with one sanitary commodity can. Also observed are a deteriorated wash basin or bucket (H-1) and a large, rusted bucket or drum (H-10). The site exhibits good potential for buried cultural remains and is evaluated as eligible under criterion (D).

15



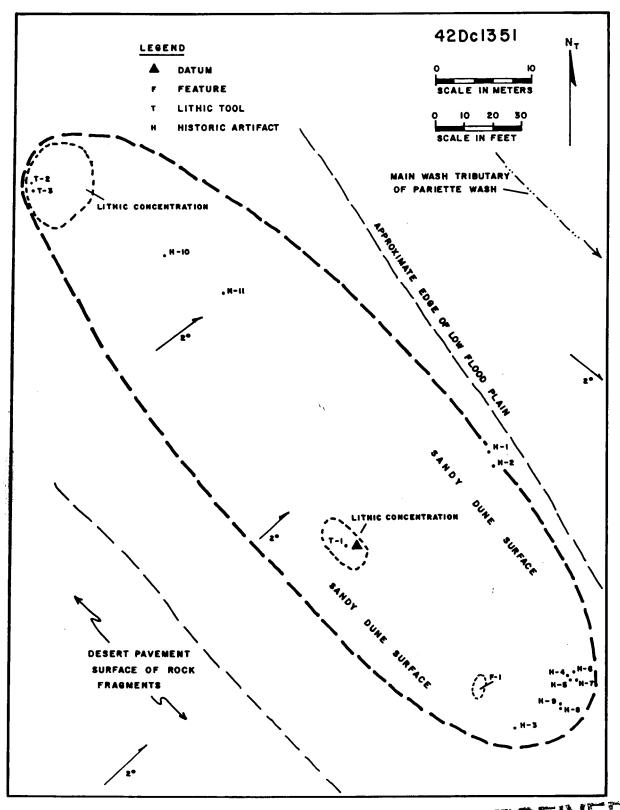


Figure 9. Site map 42Dc1351.

RECEIVED

MAR 0 9 2001

DIVISION OF OIL, GAS AND MINING



Figure 10. 42Dc1351. Site overview. Photo is viewed to the east. Roll 731/1:6.

Smithsonian Site No.: 42Dc1352 Temporary Site No.: 731-9

<u>Legal Description:</u> T 8S, R 17E, Sec. 27 <u>Jurisdiction:</u> BLM, Vernal Field Office

<u>Description:</u> This is a low density lithic and ceramic scatter situated on a southeast-trending slope of desert pavement near a tributary of Pariette Draw. It consists of 18 flakes of chert and quartzite material, 11 lithic tools, and a single Numic finger-indented brownware body sherd. The debitage includes 10 primary reduction stage flakes, and several secondary reduction stage flakes. Lithic tools consist of two scrapers, a single-handed mano fragment, and eight cores. The site is situated on desert pavement and shows little potential for buried cultural remains. It does not meet any of the eligibility criteria for inclusion to the NRHP, and the research potential has been exhausted by this documentation.

Smithsonian Site No.: 42Dc1353 Temporary Site No.: 731-6

<u>Legal Description:</u> T 8S, R 17E, Sec. 27 <u>Jurisdiction:</u> BLM, Vernal Field Office

<u>Description:</u> The site is a lithic scatter of unknown cultural affiliation, located on a bench above a tributary of Pariette Draw. Lithic debitage includes a nearly equal amount of secondary and primary reduction stage flakes of various chert materials (n=23). Tools include: six scrapers, four unprepared cores, four test cores, three choppers, three Stage I bifaces, one Stage III biface, one single-handed mano, and one hammerstone. Due to its location on thin deposits of soil, and the lack of cultural features which would provide potential for depth of cultural remains the pite recommended as not eligible to the NRHP.

Smithsonian Site No.: 42Dc1354 Temporary Site No.: 731-7

<u>Legal Description:</u> T 8S, R 17E, Sec. 27 <u>Jurisdiction:</u> BLM, Vernal Field Office

<u>Description:</u> The site is a low density lithic scatter of unknown cultural affiliation, located on a bench above a tributary of Pariette Draw. Lithic debitage is dominated by secondary reduction flakes of tan opaque chert and tan and brown opaque chert, with primary flakes also represented. One rose-colored quartzite primary flake is also noted. A high percentage of cobble cores occur on the site including: four unprepared cores, three test cores, and three prepared cores. Also documented are three choppers and a Stage I biface. Due to its location on thin deposits of soil, and the lack of cultural features which would provide potential for depth of cultural remains, the site is recommended as not eligible to the NRHP.

Smithsonian Site No.: 42Dc1355 Temporary Site No.: 731-8

<u>Legal Description:</u> T 8S, R 17E, Sec. 27 <u>Jurisdiction:</u> BLM, Vernal Field Office

Description: This is a temporary camp of unknown cultural affiliation situated on a southeast-facing bench near an unnamed stream (Figures 11 and 12). The site consists of a sparse, low density lithic scatter (10 flakes), five lithic tools, and two hearth features. The debitage is manufactured from chert and quartzite, and is dominated by primary reduction flakes. Lithic tools include two hammerstones and three cores. Feature 1 is a concentration of oxidized quartzite and sandstone cobble rocks (n=37), ranging in size from 7 to 17 cm diameter. The feature measures 1.0 by 4.5 m, and no ash or charcoal-stained soils are observed. Feature 2 is a scatter of oxidized quartzite rock fragments and cobbles (n=40), ranging in size from 5 to 15 cm diameter. The feature measures 3 m in diameter and no ash or charcoal-stained soils are observed. The thermal features lie on colluvial soils with potential for buried cultural materials. Thus, the site is evaluated as eligible for inclusion to the NRHP under criterion D, since it could yield additional information relevant to the prehistory of the area.



RECEIVE MAR 0.9 2001

DIVISION OF GAS AND MINING

Figure 11. 42Dc1355. Site overview. Photo is viewed to the northeast. Roll 731/2:9.

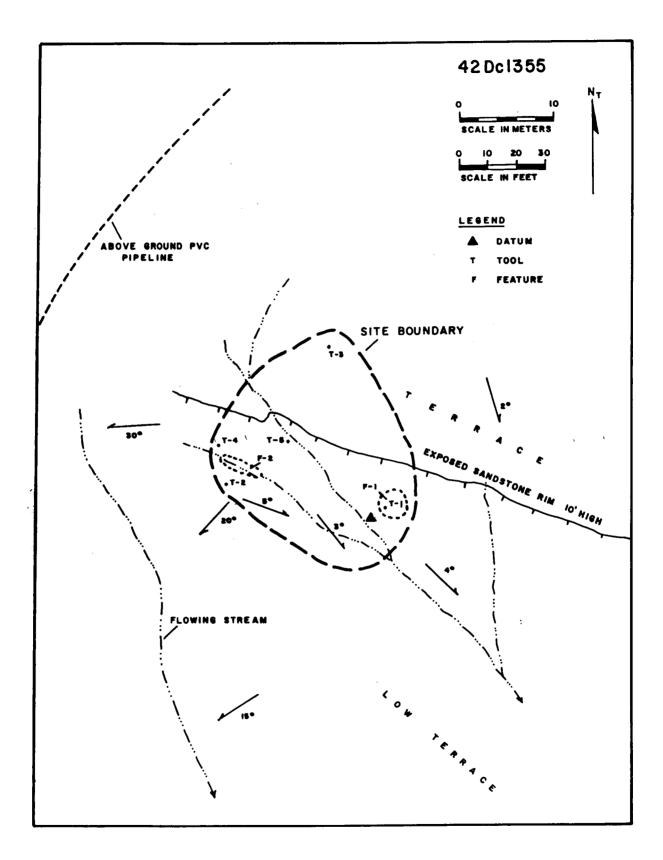


Figure 12. Site map 42Dc1355.

RECEIVED

MAR 0 9 2001

DIVISION OF OIL, GAS AND MINING

Isolated Finds of Artifacts

Isolated Find A (IF-A) is located in the NE/NE/NW of S. 27, T 8S, R 17E (UTM 585940E-4438550N). It is a brown and tan opaque chert tabular prepared core with 30+ flakes detached from narrow margins (8x7x2cm).

Isolated Find B (IF-B) is located in the NW/NW/SW of S. 27, T 8S, R 17E (UTM 585300E-4437740N). It consists of two tan opaque chert secondary flakes.

Isolated Find C (IF-C) is located in the SE/SW/SW of Sec. 27, T 8S, R 17E (UTM 585370E-4437280N). It is a brownish-yellow opaque chert cobble hammerstone with battering on two poles (8x7x6cm).

Isolated Find D (IF-D) is located in the SW/SE/SW of Sec. 27, T 8S, R 17E (UTM 585560E-4437230N). It is a light gray opaque chert secondary flake.

Isolated Find E (IF-E) is located in the SW/SE/SW of Sec. 27, T 8S, R 17E (UTM 585720E-4437360N). It is a light gray opaque chert secondary flake.

Isolated Find F (IF-F) is located in the SW/SE/SE of Sec. 27, T 8S, R 17E (UTM 586410E-4437210N). It consists of two light gray opaque chert secondary flakes and one primary flake of the same material.

Isolated Find G (IF-G) is located in the NW/SW/SE of Sec. 27, T 8S, R 17E (UTM 585980E-4437400N). It includes three light gray opaque chert secondary flakes.

Isolated Find H (IF-H) is located in the NE/NE/NE of Sec. 27, T 8S, R 17E (UTM 586710E-4438640N). It is a gray opaque chert unprepared core with dark brown cortex and 5 flakes removed from narrow margins (9x8x3cm).

Isolated Find I (IF-I) is located in the SE/SE/SE of Sec. 27, T 8S, R 17E (UTM 585680E-4437260N). It consists of two light gray opaque chert secondary flakes.

Isolated Find J (IF-J) is located in the SE/NW/SE of Sec. 27, T 8S, R 17E (UTM 586220E-4437540N). It is a large secondary blank (13x8x3cm).

Isolated Find K (IF-K) is located in the SW/NW/SE of Sec. 27, T 8S, R 17E (UTM 586140-4437640N). It is a large ovate Stage II biface preform 18x6x4cm).

Isolated Find L (IF-L) is located in the SW/NESW of Sec. 27, T 8S, R 17E (UTM 585720E-4437630N). It consists of a two light gray opaque chert secondary flakes and a brown opaque chert unprepared core with 3 flakes removed from narrow margins (6x4x21cm).

Isolated Find M (IF-M) is located in the SW/SE/NE of Sec. 27, T 8S, R 17E (UTM 586440E-4437920N). It is a light gray opaque chert unprepared core with dark brown cortex and four flakes detached from wide margins (8x6x3.5cm).

Isolated Find N (IF-N) is located in the SE/SE/NE of Sec. 27, T 8S, R 17E (UTM 586580E-4438000N). It is an ovate-shaped, light gray opaque chert unprepared core with dark brown cortex and 20+ flakes removed from narrow and wide margins (7.0x5.5x2.5cm).

20

RECEIVED

Isolated Find O (IF-O) is located in the NW/SE/NW of Sec. 27, T 8S, R 17E (UTM 585710E-4438300N). It includes two light gray opaque chert secondary flakes.

Isolated Find P (IF-P) is located in the SW/NW/NE of Sec. 27, T 8S, R 17E (UTM 586140E-4438360N). It is a light gray opaque chert decortication flake.

Isolated Find Q (IF-Q) is located in the NW/NE/NE of Sec. 27, T 8S, R 17E (UTM 586430E-4438660N). It is a light gray opaque chert unprepared core with dark brown cortex and 4 flakes removed from narrow margins (7x5x2cm).

NATIONAL REGISTER OF HISTORIC PLACES EVALUATION

The National Register Criteria for Evaluation of Significance and procedures for nominating cultural resources to the National Register of Historic Places (NRHP) are outlined in 36 CFR 60.4 as follows:

The quality of significance in American history, architecture, archaeology-logy, and culture is present in districts, sites, buildings, structures, and objects of State and local importance that possess integrity of location, design, setting, material, workmanship, feeling, and association, and that they:

- a)...are associated with events that have made a significant contribution to the broad patterns of our history; or
- b)...are associated with the lives of persons significant to our past; or
- c)...embody the distinctive characteristics of a type, period, or method of construction; or that represents the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- d)...have yielded or may be likely to yield information important in prehistory or history.

The inventory of the Inland Production's 760 acre parcel in Pleasant Valley resulted in the documentation of four historic temporary camps (42Dc1321, 42Dc1322, 42Dc1323, and 42Dc1324), two prehistoric temporary camps (42Dc1325 and 42Dc1355), six prehistoric lithic scatters (42Dc1347, 42Dc1348, 42Dc1349, 42Dc1350, 42Dc1353, and 42Dc1354), one prehistoric lithic and ceramic scatter (42Dc1352), and one multi-component site consisting of a prehistoric lithic scatter and historic trash scatter (42Dc1351). Five of these sites are recommended as eligible to the NRHP under criterion (D): 42Dc1325, 42Dc1347, 42Dc1348, 42Dc1351, and 42Dc1355. Site 42Dc1325 is a prehistoric temporary camp with a fire cracked rock feature. Sites 42Dc1347 and 42Dc1348 are lithic scatters located in aeolian dunes. Site 42Dc1351 is a lithic scatter and historic trash scatter, also located on aeolian deposition. Site 42Dc1355 is a prehistoric temporary camp with two hearth features. All of these sites are recommended as eligible due to the potential for buried cultural remains. Additional investigations at these sites could provide significant data concerning site function, chronology, subsistence, and material culture.

Four historic sites, 42Dc1321, 42Dc 1322, 42Dc1323 and 42Dc1324 represent temporary livestock camps having a limited range of cultural materials. Additional investigations at these sites would fail to provide information relevant to historic research domains of the area. Five

prehistoric sites (42Dc1349, 42Dc1350, 42Dc1352, 42Dc1353, and 42Dc1354) are recommended as not eligible for NRHP inclusion since they have an absence of additional diagnostic artifacts or features. Further research of these sites would not provide pertinent information to the prehistory of the area. The isolated finds of artifacts are also considered not eligible to the NRHP since they lack additional research potential.

MANAGEMENT RECOMMENDATIONS

The inventory resulted in the documentation of five sites that are recommended as eligible to the NRHP. These include: two prehistoric temporary camps (42Dc1325 and 42Dc1355); two lithic scatters (42Dc1347 and 42Dc1348); and one multi-component site consisting of a lithic scatter and historic trash scatter (42Dc1351). All of these sites need to be avoided by the future development within the parcel. Based on these findings, a determination of "no historic properties affected" is recommended for this project pursuant to Section 106, CFR 800.

RECEIVED

MAR 0 9 2001

References Cited

Burton, D.K.

1996

A History of Uintah County: Scratching the Surface. Utah Centennial County History Series. Utah State Historical Society and Uintah County Commission.

Callaway, D., J. Janetski, and O.C. Stewart

1986

Ute. In *Great Basin*, edited by Warren L. D'Azevedo, pp. 336-367. Handbook of North American Indians, Volume II: Great Basin, edited by William C. Sturtevant, Smithsonian Institution, Washington.

Crosland, R. and Scott Billat

1998

Cultural Resource Inventory of Six 40-Acre Well Pad Locations: Wells Draw 5-5, 12-5, 13-30, Castle Draw 11-1, 12-1, and 13-1, Duchesne and Uintah Counties, Utah. JBR Environmental Consultants Inc. Springville, Utah. Report NO. U-98-JB-0659b, available at the BLM Vernal Field Office, Vernal Utah.

Ellis, S. Murray

1997

Cultural Resource Block Survey in the Tar Sands Federal Unit, Duchesne County, Utah. Sagebrush Consultants, L.L.C., Ogden, Utah. Report No. U-97-SJ-0777b, available at the BLM Vernal Field Office, Vernal Utah.

Hauck, F.R

1996a

Cultural Resource Evaluation of a Proposed Pipeline Corridor in the Pariette Bench–Wells Draw Locality of Duchesne County, Utah. Archeological - Environmental Research Corporation, Bountiful, Utah. Report NO. U-96-AF-0445b, available at the BLM Vernal Field Office, Vernal Utah.

1996b

Cultural Resource Evaluation of 5 Proposed Monument Well Locations in the Wells Draw, Pariette Bench Eightmile Flat, & Big Wash Localities of Duchesne & Uintah Counties, Utah. Archeological-Environmental Research Corporation, Bountiful, Utah. Report No. U-96-AF-0301b,s, available at the BLM Vernal Field Office, Vernal Utah, and the Utah Division of State History, Salt Lake City, Utah.

1998

Cultural Resource Evaluation of Various Large Tracts in the Wells Draw to Pariette Bench Locality in Duchesne and Uintah Counties, Utah. Archeological-Environmental Research Corporation, Bountiful, Utah. Report No. U-98-AF-0164b,s, available at the BLM Vernal Field Office, Vernal Utah, and the Utah Division of State History, Salt Lake City, Utah.

Hauck, F.R and Glade Hadden

1997

Cultural Resourse Evaluation of the Ashley Unit, South Wells Draw Unit & South Pleasant Valley Unit Lease Areas in the Wells Draw & Pleasant Valley Localities in Duchesne County, Utah. Archeological-Environmental Research Corporation, Bountiful, Utah. Report No. U-97-AF-0722b,s, available at the BLM Vernal Field Office, Vernal Utah, and the Utah Division of State History, Salt Lake City, Utah.

RECEIVED

MAR 0.9 2001

Holmer, R.

1986

Projectile Points of the Intermountain West. In Anthropology of the Desert West: Essays in Honor of Jesse D. Jennings, edited by Carol J. Condie and Don D. Fowler, pp. 89-116. University of Utah Anthropological Papers No. 110. Salt Lake City.

Horn, J.C., A.D. Reed, and S.M. Chandler

1994

Grand Resource Area Class I Cultural Resource Inventory. Alpine Archaeological Consultants, Inc. Montrose. Bureau of Land Management. Moab. Utah.

Marwitt, J.P.

1970

Median Village and Fremont Culture Regional Variation. *University of Utah Anthropological Papers* No. 95. Salt Lake City.

Polk, A.S.

1998

Cultural Resource Inventory in the Second Portion of the Black Jack Unit Block Area, Duchesne County, Utah. Sagebrush Consultants, L.L.C., Ogden Utah. Report No. U-98-SJ-021b, available at the BLM Vernal Field Office, Vernal, Utah.

Reed A.D.

1988

Ute Cultural Chronology. In Archaeology of the Eastern Ute: A Symposium edited by Paul R. Nickens, pp 79-101. Colorado Council of Professional Archaeologists Occasional Papers No. 1. Denver.

1994

The Numic Occupation of Western Colorado and Eastern Utah during the Prehistoric and Protohistoric Periods. In *Across the West: Human Population Movement and the Expansion of the Numa*, edited by D.B. Madsen and D. Rhode. University of Utah Press.

Shields, W.F.

1970

The Fremont Culture in the Uinta Basin. Paper presented at the Fremont Culture Symposium, 35th Annual Meeting of the Society for American Archaeology, Mexico City.

Smith, A.M.

1974

Ethnography of the Northern Utes. Papers in Anthropology No. 17. Museum of New Mexico Press.

Spangler, J.D., M. Rands and S.A. Bilbey

1995

Paradigms and Perspectives, A Class I Overview of Cultural Resources in the Uinta Basin and Tavaputs Plateau, Volume II. Uinta Research, Salt Lake City, Utah.

Stokes, W.L.

1986

Geology of Utah. Utah Museum of Natural History, University of Utah, Salt Lake City.

RECEIVED

MAR 0.9 2001

APPENDIX A

INTERMOUNTAIN ANTIQUITIES COMPUTER SYSTEM (IMACS) SITE INVENTORY FORMS

On File At:

U.S. Bureau of Land Management Vernal Field Office Vernal, Utah

RECEIVED

MAR 0 9 2001

| APD RECEIVED: 03/09/2001 | API NO. ASSIGNED: 43-013-32232 | | | |
|--|---|--|--|--|
| WELL NAME: GBU 7-27-8-17 OPERATOR: INLAND PRODUCTION (N5160) | | | | |
| CONTACT: JON HOLST | PHONE NUMBER: 970-481-1202 | | | |
| PROPOSED LOCATION: SWNE 27 080S 170E SURFACE: 2085 FNL 2203 FEL BOTTOM: 2085 FNL 2203 FEL DUCHESNE MONUMENT BUTTE (105) LEASE TYPE: 1-Federal LEASE NUMBER: UTU-76241 SURFACE OWNER: 1-Federal PROPOSED FORMATION: GRRV | INSPECT LOCATN BY: / / Tech Review Initials Date Engineering Geology Surface | | | |
| Plat Bond: Fed [1] Ind[] Sta[] Fee[] (No. 4488944) Potash (Y/N) N oil Shale (Y/N) *190-5 (B) or 190-3 Water Permit (No. MUNICIPAL) RDCC Review (Y/N) (Date:) NA Fee Surf Agreement (Y/N) | LOCATION AND SITING: R649-2-3. Unit GREATER BOUNDARY R649-3-2. General Siting: 460 From Qtr/Qtr & 920' Between Wells R649-3-3. Exception Drilling Unit Board Cause No: 125-2 **Unit** Enh. More Eff Date: 4-8-98 Siting: ** Suspends Gen. Siting R649-3-11. Directional Drill | | | |
| COMMENTS: Mon Bulk Field Sol, Separa STIPULATIONS: D FEDERAL APPROL | te file. | | | |



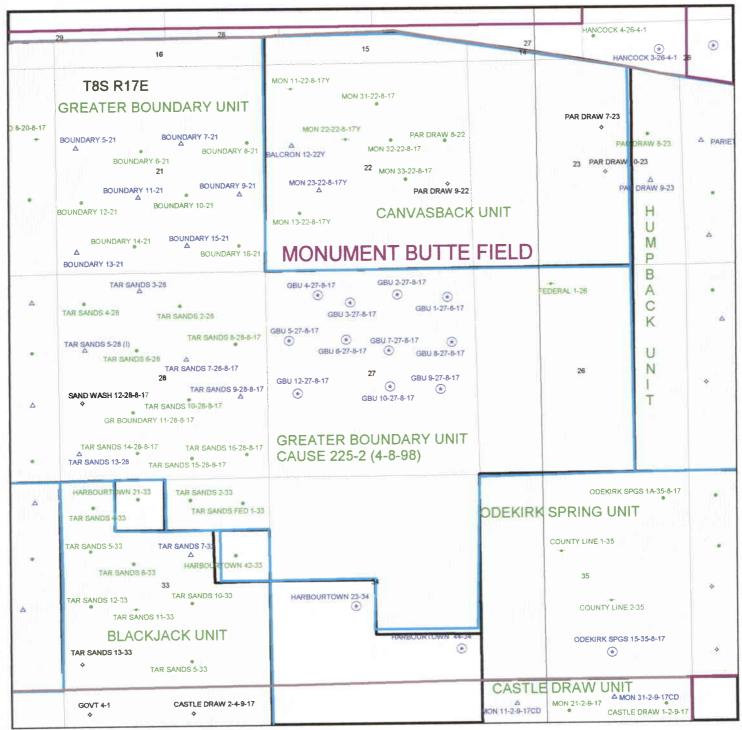
OPERATOR: INLAND PROD CO (N5160)

FIELD: MONUMENT BUTTE (105)

SEC. 27, T8S, R17E,

COUNTY: DUCHESNE UNIT: GREATER BOUNDARY

CAUSE: 225-2





Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210 PO Box 145801 Salt Lake City, Utah 84114-5801 801-538-5340 801-359-3940 (Fax) 801-538-7223 (TDD)

March 15, 2001

Inland Production Company 410 - 17th St, Suite 700 Denver, CO 80202

Re:

Greater Boundary Unit 7-27-8-17 Well, 2085' FNL, 2203' FEL, SW NE, Sec. 27,

T. 8 South, R. 17 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-32232.

Sincerely

John R. Baza

Associate Director

er

Enclosures

cc:

Duchesne County Assessor

Bureau of Land Management, Vernal District Office

| Operator: | | Inland Production Company | | | | |
|--|---------|---------------------------|-------------------|--|--|--|
| Well Name & Number Greater Boundary Unit 7-27- | | | Unit 7-27-8-17 | | | |
| API Number: | | 43-013-32232 | | | | |
| Lease: | | UTU 76241 | | | | |
| Location: SW NE | Sec. 27 | T. 8 South | R. 17 East | | | |

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

FORM 3160-3 (December 1990)

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved. Budget Bureau No. 1004-0136 Expires December 31, 1991

| | UNITED ST | ATES | | | | | |
|---|-----------------------------------|---------------------------|--------------------|---------------------|------------|-------------------------------|--------------|
| DEP | ARTMENT OF T | | | | | 5. LEASE DESIGNATION AN | D SERIAL NO. |
| BUREAU OF LAND MANAGEMENT | | | | | UTU-76241 | | |
| | | | | | | 6. IF INDIAN, ALLOTTEE OR | TRIBE NAME |
| APPLICATION FOR P | ERMIT TO DRILL | ., DEEPEN, OR | PLUG E | BACK | | N/A | |
| Ia. TYPE OF WORK DRILL | X DEEPEN | 1 | | | | 7. UNIT AGREEMENT NAME | 1 |
| th. TYPE OF WELL | | _ | | | | Greater Boundary | 1 |
| OIL GAS | | SINGLE | MULTIPLE | | | 8. FARM OR LEASE NAME V | WELL NO |
| WELL X WELL | OTHER | ZONE X | ZONE | | | #7-27-8-17 | |
| 2. NAME OF OPERATOR | | | | | | 9. API WELL NO. | |
| Inland Production Company 3. ADDRESS OF OPERATOR | · | | | | | 10. FIELD AND POOL OR WI | ILDCAT |
| 410 - 17th Street, Suite 700, | Denver, CO 80202 | Phone: | (303) 893 | -0102 | | Monument Butte | |
| 4. LOCATION OF WELL (Report location | clearly and in accordance with ar | | (5 5 5 7 5 5 5 | | | 11. SEC., T., R., M., OR BLK. | |
| At Surface SW/NE | 2085' FNL & 2203' | FWL | | | | AND SURVEY OR AREA | |
| At proposed Prod. Zone | | | | | | SW/NE | _ |
| | | | | | | Sec. 27, T8S, R17I | |
| 14. DISTANCE IN MILES AND DIRECTION FR | | FICE* | | | | 12. County | UT |
| 14.2 miles southeast of Myto | n, Utah | | | r | | Duchesne |]01 |
| 15. DISTANCE FROM PROPOSED* LOCATION OR LEASE LINE, FT.(Also to | N TO NEAREST PROPERTY | 16. NO. OF ACRES IN LEASE | | 17. NO. OF ACRES | ASSIGNED | TO THIS WELL | |
| Approx. 2085' f/lse line | | 1760 | | 20. ROTARY OR C | | | |
| 18. DISTANCE FROM PROPOSED LOCATION DRILLING, COMPLETED, OR APPLIED FO | | 19. PROPOSED DEPTH | | 20. ROTARY OR CA | ABLE TOOL | 3 | |
| Approx. 1320' | A ON THIS DEADE, 11. | 6500' | | Rot | ary | | |
| 21. ELEVATIONS (Show whether DF, RT, GR, e | tc.) | <u> </u> | | L | 22. APPROX | C. DATE WORK WILL START* | |
| 5145.9' GR | | | | | | | |
| | D CEMENTING PROGRA | м | | | | | |
| | | | SETTING DEP | T1. | OHANTITY | OF CEMENT | |
| SIZE OF HOLE | SIZE OF CASING WEIGH | T/FOOT | SETTING DEP | <u> </u> | QUANTITI | OF CEMENT | |
| Refer to Monument Butte F | iold SOD's Drilling Pre | naram/Casina Design | <u> </u> | | | | |
| Refer to Monument Butte F | T Drining 11 | ogrami, casing Design | | | | | |
| | | | | | | | |
| Inland Production Co | mpany proposes to dr | ill this well in accord | dance with | the attached | d exhibi | its. | |
| | | | | | | | |
| Draft Conditions of A | pproval are attached. | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | and the control of | 000 -1-0 | | | |
| | | | | Cei | | | |
| | | | A A Bast | un Despi beren | A point | | 11 / |
| | | | | | | Fine Car | r Walio |
| | | | | APR 1 1 2 | 001 | MAR 0 5 | 2001 |
| | | | | | | man V J | 700 I |
| | | | | DIVISION GAS AND | | NG. | |
| | | | • | | | | |
| IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. | | | | | | | |
| If proposal is to drill of deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any. | | | | | | | |
| 24. | | mm s Downittina | Agant | | DATE | 2/27/01 | |
| SIGNED SIGNED | | TITLE Permitting | Agent | | DATE | <u> </u> | |
| (This space for Federal or State office use) | | | | P (V and) | ~ ~ r | ADDDOVAL | |
| PERMIT NO. | | APPROVAL DATE | | NUIL | E UI | APPROVAL | |

*See Instructions On Reverse Side

Assistant Field Manager Mineral Resources

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

COAs Page 1 of 3 Well No.: GREATER BOUNDARY 7-27-8-17

CONDITIONS OF APPROVAL APPLICATION FOR PERMIT TO DRILL

| Company/Operator: <u>Inland Production Company</u> |
|--|
| Well Name & Number: <u>Greater Boundary 7-27-8-17</u> |
| API Number: <u>43-013-32232</u> |
| Lease Number: U -76241 |
| Location: <u>SWNE</u> Sec. <u>27</u> T. <u>08S</u> R. <u>17E</u> |
| Agreement: Greater Boundary Unit |

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

COAs Page 2 of 3 Well No.: GREATER BOUNDARY 7-27-8-17

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. <u>DRILLING PROGRAM</u>

1. Casing Program and Auxiliary Equipment

As a minimum, the usable water resources and other resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the Green River Formation, identified at \pm 1,795 ft.

COAs Page 3 of 3

Well No.: GREATER BOUNDARY 7-27-8-17

SURFACE USE PROGRAM Conditions of Approval (COA) Inland Production Company - Well No. 7-27-8-17

Plans For Reclamation of Location:

All seeding for reclamation operations at this location shall use the following seed mixture:

shadscale Atriplex conflertifolia 4 lbs/acre gardners saltbush Atriplex gardneri 4 lbs/acre galleta grass Hilaria jamesii 4 lbs/acre

If the seed mixture is to be aerially broadcasted, the pounds per acre shall be doubled. All seed poundages are in Pure Live Seed.

Immediately after construction the stockpiled top soil will be seeded and the seed worked into the soil by "walking" the pile with caterpillar tracks.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

| Name of Company: INLAND PRODUCTION COMPANY |
|--|
| Well Name: GBU 7-27-8-17 |
| Api No 43-013-32232 LEASE TYPE: FEDERAL |
| Section 27 Township 08S Range 17E County DUCHESNE |
| |
| Drilling Contractor <u>LEON ROSS DRILLING</u> RIG # 14 |
| SPUDDED: |
| Date04//25/2001 |
| Time 9:00 AM |
| How |
| Drilling will commence |
| |
| Reported by GARY DIETZ |
| Telephone #1-435-823-4211 |
| Date <u>04/27/2001</u> Signed: <u>CHD</u> |
| Duc OT/2/1/2001 DIghtu. CHD |

FORM 3160-5

| TED STATES |
|----------------------------|
| DEPARTMENT OF THE INTERIOR |
| BUREAU OF LAND MANAGEMENT |

| (June 1990) DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT | | Budget Bureau No. 1004-0135 Expires: March 31, 1993 | |
|--|---|--|--|
| | SUNDRY NOTICES AND | | 5. Lease Designation and Serial No. # UTU-76241 |
| Do not use this form for proposals to drill or to deepen or reentry a different reservoir. Use "APPLICATION FOR PERMIT -" for such proposals | | | 6. If Indian, Allottee or Tribe Name NA |
| 1. Type of Well | SUBMIT IN | TRIPLICATE | 7. If Unit or CA, Agreement Designation # Greater Boundry |
| X Oil Well | Gas Well Other | | 8. Well Name and No. # 7-27-8-17 9. API Well No. |
| 2. Name of Operator INLAND P 3. Address and Teleph | PRODUCTION COMPANY | | # 43-013-32232 10. Field and Pool, or Exploratory Area # Monument Butte |
| Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721 4. Location of Well (Footage, Sec., T., R., m., or Survey Description) 2085' FNL & 2203' FW SW/NE Sec.27, T8S, R17E | | | 11. County or Parish, State # Duchesne, Utah. |
| 12. TYPE | CHECK APPROPRIATE BOX(s) OF SUBMISSION | TO INDICATE NATURE OF NOTICE, REPO | RT, OR OTHER DATA F ACTION |
| | x Notice of Intent Subsequent Report Final Abandonment Notice | Abandonment Recompletion Plugging Back Casing Repair Altering Casing X Other Spud | Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) |
| ally drilled, give su | on MIRU Ross #14. Drill 3 | s, and give pertinent dates, including estimated date of starting any proposes for all markers and zones pertinent to this work.)* 05' of 12 1/4" hole with air mist. TIH | |
| | | | |

FORM APPROVED

14. I hereby certify that the foregoing is true and correct Signed Title **Drilling Foreman** 04/29/2001 Date Pat Wisener (This space for Federal or State office use) Approved by Title Date Conditions of approval, if any:



May 1, 2001

State of Utah
Division of Oil, Gas & Mining
Attn: Dan Jarvis
1594 West North Temple - Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

Dear Dan:

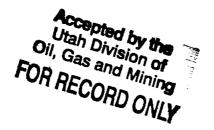
Please find enclosed Form 7, with water analysis report for the Greater Boundry 7-27-8-17. If you have any questions feel free to call me @ 435-823-7468 cell, or 435-646-3721 office any time.

Sincerely,

PAT WISENER Drilling Foreman

Enclosures

pw

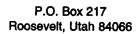


| , | STATE OF UTAH |
|---|---------------------------------|
| | DIVISION OF OIL, GAS AND MINING |

| REPORT OF WATER ENCOUNTERED DURING DRILLING | | | | | | | |
|---|------------|------------|-------------------|---------------------------------|--------------|------------------------|--------------|
| Well na | me and i | number: | Greater Boun | dry 7-27-8-17 | | | |
| API nun | nber: | | 43-013-32232 | | | | |
| Well Lo | cation: | QQ | SW/NW Section | on 27 Township 8S R | ange 17E Cou | inty Duchesne | |
| Well Op | erator: | INLAN | PRODUCTION | N COMPANY | | | |
| Address: Route 3 Box 3630 | | | | | | | |
| | | Myton, | Utah 84052 | | | Phone: | 435-646-3721 |
| Drilling | Contract | or: | Ross Well Ser | vice | | | |
| Address | s : | P.O Bo | X. | | | - | |
| | | Roosev | elt, Utah 84066 | | | — Phone: | 435-722-4469 |
| Water e | encounte | red (atta | ch additional pa | ges as needed): | | <u></u> | |
| | | | • | , | <u> </u> | 01111 | |
| | FR | ROM | PTH TO | VOLUME (FLOW RATE OR HEAD) | | QUALITY SH OR SALTY | 0 |
| | 50' | | 55' | No flow to surface | | | , |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Formati | on Tops: | | Surface (Uinta | 1) | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | • | | er encountered, please attach a | | t to this form. | YES |
| I hereby | certify t | hat this r | eport is true and | d complete to the best of my kn | owledge. Da | te: <u>05/01/0</u> | 1 |
| Name & | Signatu | re: | TANVI | sene | Tin | ne: _10:00 AN | 1 |



A Division of BJ Services



Office (435) 722-5066 Fax (435) 722-5727

WATER ANALYSIS REPORT

| Company INLAND PROD | UCTION Addr | ess | | | | Date | 4/27/01 |
|---|----------------------|---------------------------------------|---------------------------------|---------------------------------------|-------------|---------------|------------------|
| Source <u>GBU 7-27-8-17</u> | Date | Sampled | 4/26/01 | | _ Analysis | No | |
| 55 ° | Analysis | | mg/ | l(ppm) | • | *Me | g/l |
| 1. PH | 8.4 | | | | | | |
| 2. H ₂ S (Qualitative) | 0.0 | | | | | | |
| 3. Specific Gravity | 1.002 | · · · · · · · · · · · · · · · · · · · | | | | | |
| 4. Dissolved Solids | | | 2,587 | · · · · · · · · · · · · · · · · · · · | _ | | |
| 5. Alkalinity (CaCO ₃) | | CO ₃ | 0 | | _ ÷ 30 | 0 | CO ₃ |
| 6. Bicarbonate (HCO ₃) | | HCO ₃ | 976 | ···· | _ ÷61 | 16 | HCO ₃ |
| 7. Hydroxyl (OH) | | ОН | 0 | | _ ÷ 17 | 0 | OH |
| 8. Chlorides (CI) | | Cl | 283 | | ÷ 35.5 | 8 | CI |
| 9. Sulfates (SO ₄) | | SO, | 525 | | - ÷ 48 | 11 | SO ₄ |
| 10. Calcium (Ca) | | Ca | 40 | | ÷ 20 | 2 | Ca |
| 11. Magnesium (Mg) | | MG | 4 | | ÷ 12.2 | | Mg |
| 12. Total Hardness (CaCO ₃) | | | 120 | | _ | | <u></u> |
| 13. Total Iron (Fe) | | | 1.4 | | | | |
| 14. Manganese | | | | , | _ | | |
| 15. Phosphate Residuals | | | | | - | | |
| *Milli equivalents per liter | | | | | | | |
| | PROBABLE | MINERAL | COMPOSI | TION | | | |
| | | Cor | mpound | Equiv. Wt. | X Meg/ | 1 = | Mg/l |
| 2 Ca | HCO ₃ 16 | Ca(l | HCO₃)₂ | 81.04 | 2 | 1 | 62 |
| | - | CaS | 04 | 68.07 | - | | |
| 0 Mg | so. 11 | CaC | l ₂ | 55.50 | | - | |
| Na Na | CI _ 0 | Mg(I | HCO ₃) ₂ | 73.17 | | - | |
| 33 Na | 8 | MgS | 6O₄ | 60.19 | | | |
| Saturation Values | Distilled Water 20°C | MgC | Cl ₂ | 47.62 | · | | |
| CaCO₃ | 13 Mg/l | NaH | CO ₃ | 84.00 | 14 | 1 | 176 |

_11____ MgCO₃ 103 Mg/l NaCl 58.46 8____ Sr = 0REMARKS.

Na₂SO₄

71.03

781

468

2,090 Mg/l

CaSO₄ · 2H₂O

| 303 | |
|------------|--|
| 646 | |
| 43E 646 | |
| ` ₽. | |
| FAX | |
| | |
| | |
| 8 | |
| S | |
| Œ | |
| ğ | |
| PRODUCTION | |
| 2 | |
| NI AN | |
| _ | |

| | ofutah Kopollojs | AND ESNAG | |
|---------|---------------------|-----------|------|
| | Y ACTION | | RM 6 |
| | | | |
| ACTON | CURRENT | NS: | 1 |
| 1 000=1 | ENTITY NO. | C | 1 |

CPERATOR: INLAND PRODUCTION COMPANY ADDRESS: RT. 3 BOX 3630 MYTON, UT 84052

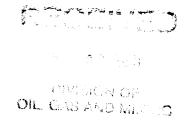
OPERATOR ACCT NO N51E0

| ACTION | SURRENT. | NEV. | AP AUMBER | T | | | | | | | |
|---|--|--|---------------------------|---|-------------|------|----------------|-----------|-----------|----------------|-------------------------------|
| 302≣ | ENTITY NO | ENTITYTIC | HE OURSEN | WELL HAVE | | | <u></u> | DC4TION | | | |
| | | 1 | | | 000 | sc | ТР | | | SPUD | EFFECTIVE. |
| Α | 99999 | 12391 | 40.040.000 | <u></u> | i | | " | F3 | COUNTY | DATE | 2×16 |
| | COLUENTS | : 12031 | 43-013-32224 | Воилдагу #3-27-8-17 | NE/NW | 27 | 85 | 4 | [| • | |
| | | | | | 1.121111 | 1 21 | 03 | 17E | Duchesne | April 16, 2001 | 04/16/01 |
| 5 | -8-01 | • | | | | | | | | | . 0471001 |
| ACTION | | | | | | | | | | | |
| | | NEH | AP SUMBER | WELL NAME | | | | | | | |
| CCCE | ENTITY NO | ENTITYNO | | | | | ELL LOCATE | Offi | | SPUD | · |
| . [| | | | | <u> </u> | sc | TP | P.S | COUNTY | DATE | EFFECTIVE |
| _A_ | 99999 | 12391 | 43-013-32225 | Rolledon, #5 67 6 4- | Î | | | | | LATE . | DATE |
| TE-LZC | Z.WENTS | | | Boundary #5-27-8-17 | SW/NW | 27 | 85 | 17E | Duchesne | A | |
| | G . | | | | | | | | Duciosile | April 19, 2001 | 04/19/01 |
| | -8-01 | | | | | | | | | | |
| CTICY | CURRENT | NEW | | | | | | | | | |
| SOCE ! | ENTITY NO | CH YTHENS | AP NUMBER | VELL NAME | | | 71E-1 0 | | | | |
| | | 24.11.143 | | | CC | εc | MELLO | | | SPUD | EFFECTIVE |
| A | 99999 | 12391 | 40 | | | | | FS | YTAUCO | OATE | CATE |
| | CYCLENTS | 12391 | 43-013-32231 | Boundary #6-27-8-17 | SENW | 27 | أمما | | į. | | |
| | C.TEM 2 | | | | SEMAN | 21 | 88 | 17E | Duchesne | April 20, 2001 | 04/20/2001 |
| 5. | 8-01 | | | | | | | | | | 04/20/2001 |
| - 0 | | | | | | | | | | | |
| $\overline{}$ | | | | | | | | | | | |
| CT C:1 | SUPPERM | HEW | ~P NUMBER | | | | | | | | |
| CT C11 | | HEW EVERYNO | > NUMEEN | OBL. WAS | | | ∴ET 100 | :- Trop1 | | | |
| OT 0:1 :00€ | CURPERT | | ~P NUMBER | OBL. WARE | 20 | sc | 78.11.20 | | 777 A 7 | SPCC . | EFFECTARE |
| OCE A | си титея си титея 99999 | | | | | sc | | 45 PG1 | COLATA | SPCC DATE | EFFECTACE SATE |
| OT 011 | CONTINUES | EVERYNO | 43-013-32232 | ंहा. १८४५ Boundary (:7-27-8-17 | SW/RE | sc | -2 | 95 | | DATE | - |
| OT 011 100E + | 99999 ; | EVERYNO | | | | | -2 | | Duchesne | | - |
| A Sec. | си титея си титея 99999 | EVERYNO | | | | | -2 | 95 | | DATE | 31.40 |
| A = 5 | 99999 ; | 12391 | 43-013-32232 | | | | -2 | 95 | | DATE | 3150 |
| A EL + CO: | 99999 ; 0000000000000000000000000000000 | 12391 12391 | | Boundary #7-27-8-17 | | | 8S | 17E | | DATE | 31.40 |
| A EL + CO: | 99999 ; | 12391 | 43-013-32232 | | SWINE | 27 | 8S | 17E | | April 25, 2001 | 04/25/01 |
| A EL + CO: | 99999 ; 0000000000000000000000000000000 | 12391 12391 | 43-013-32232 | Boundary #7-27-8-17 | | | 8S | 17E | | April 25, 2001 | 04/25/01 EFFECTIVE |
| A SEL + CONTION | SPERT | 12391 12391 | 43-013-32232 | Boundary #7-27-8-17 | SWINE | 27 | 8S | 17E - | Duchesne | April 25, 2001 | 04/25/01 |
| A STUDIES | SPERT | 12391 12391 | 43-013-32232 | Boundary #7-27-8-17 | SWINE | 27 | 8S | 17E - | Duchesne | April 25, 2001 | 04/25/01 EFFECTIVE |
| A EL + CO: | SPERT | 12391 12391 | 43-013-32232 | Boundary #7-27-8-17 | SWINE | 27 | 8S | 17E - | Duchesne | April 25, 2001 | 04/25/01 EFFECTIVE |
| A SEL + CO. | CORPENT ENTRY OF CONTRACT STATES | 12391 12391 | 43-013-32232 | Boundary #7-27-8-17 | SWINE | 27 | 8S | 17E - | Duchesne | April 25, 2001 | 04/25/01 EFFECTIVE |
| A COLUMN | SUPPENT ENTRY NO SERVICE SERVI | 12391 183 184 187 187 | 43-013-32232 | Boundary #7-27-8-17 | SWINE | 27 | 8S | 17E - | Duchesne | April 25, 2001 | 04/25/01 EFFECTIVE |
| A COLL COLL COLL COLL COLL COLL COLL COL | SUPPENT ENTRY NO STATE OF STAT | 12391 184 TOTAL TO | 43-013-32232 | Boundary #7-27-8-17 | SWINE | 27 | 8S | 17E - | Duchesne | April 25, 2001 | 04/25/01 EFFECTIVE |
| A BL + CO. EL 600/. CL 600/. CL 600/. | SUPPRINT BOTH NO STATE OF THE STATE | 12391 163 FULL AND STATE OF ST | 43-013-32232 | Boundary #7-27-8-17 | SWINE | 27 | 8S | 17E - | Duchesne | SPJO : DATE | 04/25/01 EFFECTIVE |
| A | SUPPENT ENTITY NO STATE OF THE PROPERTY NO STATE OF THE PROPERTY OF THE PROPER | 12391 184 FORM NO | 43-013-32232 AZ-10-0863 | Boundary #7-27-8-17 | SWINE | 27 | 8S | 17E - | Duchesne | SPJO : DATE | 04/25/01 EFFECTIVE |
| A EL 4000 CODE CODE CODE CODE CODE CODE CODE CODE | SUPPENT ENTITY NO STATE OF THE PROPERTY NO STA | 12391 183 183 183 183 183 183 183 | 43-013-32232 AZ-10-0863 | Boundary #7-27-8-17 | SWINE | 27 | 8S | 17E - | Duchesne | April 25, 2001 | 04/25/01 EFFECTIVE DATE |
| CT CT CODE CT CT SUPPENT ENTITY NO STATE OF THE PROPERTY NO STATE OF THE PROPERTY OF THE PROPER | 12391 183 183 183 183 183 183 183 | 43-013-32232 AZ-10-0863 | Boundary #7-27-8-17 | SWINE | 27 | 8S | 17E - | Duchesne | SPJD DATE | 04/25/01 EFFECTIVE DATE |
| A | SUPPERT ENTRY NO 99999 (SUPPERT SUPPE | TIEST NO 12391 183 TIEST TIE | 43-013-32232 APTILLISES | Boundary #7-27-8-17 | SWINE | 27 | 8S | 95 17E | Duchesne | SPJD DATE | 04/25/01 EFFECTIVE DATE |
| A | SUPPERT ENTRY NO 99999 (SUPPERT SUPPE | TIEST NO 12391 183 TIEST TIE | 43-013-32232 AZ-10-0863 | Boundary #7-27-8-17 | SWINE | 27 | 8S | 95 17E | Duchesne | SPJD DATE | 04/25/01 EFFECTIVE DATE |

(Ju

| ORM 3160-5 une 1990) | TED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT | FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993 |
|-------------------------|--|---|
| SUNI | DRY NOTICES AND REPORTS ON WELLS | Lease Designation and Serial No. # UTU-76241 |
| o not use this form for | proposals to drill or to deepen or reentry a different reservoir. Use "APPLICATION FOR PERMIT -" for such proposals | 6. If Indian, Allottee or Tribe Name NA |

| . BUREAU OF L | AND MANAGEMENT | Expires: March 31, 1993 |
|--|---|--|
| SUNDRY NOTICES AND | REPORTS ON WELLS | Lease Designation and Serial No. # UTU-76241 |
| Do not use this form for proposals to drill or to deep Use "APPLICATION FO | pen or reentry a different reservoir. OR PERMIT -" for such proposals | 6. If Indian, Allottee or Tribe Name NA |
| SUBMIT IN 1. Type of Well | TRIPLICATE | 7. If Unit or CA, Agreement Designation # Greater Boundry |
| X Oil Gas Well Other | | 6. Well Name and No. # 7-27-8-17 9. API Well No. |
| 2. Name of Operator | | # 43-013-32232 |
| INLAND PRODUCTION COMPANY | | 10. Field and Pool, or Exploratory Area |
| 3. Address and Telephone No. D4 2 Pow 2620 Mystern Liter 94052 425 64 | | # Monument Butte |
| Rt. 3 Box 3630, Myton Utah, 84052 435-64 4. Location of Well (Footage, Sec., T., B., m., or Survey Description) | 0-3/21 | 11. County or Parish, State |
| 2085' FNL & 2203' FW SW/NE Sec.27, | , T8S, R17E | # Duchesne, Utah. |
| 12. CHECK APPROPRIATE BOX(s) | TO INDICATE NATURE OF NOTICE, REPOR | RT, OR OTHER DATA |
| TYPE OF SUBMISSION | TYPE OF | ACTION |
| x Notice of Intent Subsequent Report Final Abandonment Notice | Abandonment Recompletion Plugging Back Casing Repair Altering Casing X Other Spud | Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) |
| On 4/25/01 MIRU Ross #14. Drill 30 307.66/KB On 5/4/01 cement with 14 ppg > 1.17 cf/sk yeild. 4 bbls cement r | for all markers and zones pertinent to this work.)* 05' of 12 1/4" hole with air mist. TIH v 45 sks of Class "G" w/ 2% CaCL2 + | w/ 8 Jt's 85/8" J-55 24# csgn. Set @ |



| (This space for Federal or State office use) | Signed Pat Wisener | d correct | Title | Drilling Foreman | Date | 05/04/2001 |
|--|--------------------|-----------|-------|------------------|------|------------|
| Approved by Title Date | • | ;) | Title | | Date | |

INLAND PRODUCT N COMPANY - CASING & CEME REPORT

| | | | 8 5/8 | CASING SET | AT | 307.66 | | | | | |
|--------------|----------------|----------------|------------------|-----------------|-----------------------------|----------------|---------------|--|--|--|--|
| LAST CASIN | IG 8 5/8" | SET | AT 307.66 | ,• | OPERATOR | 2 | Inland Pro | duction Co | mnanv | | |
| DATUM | | | | | WELL | | | | припу | | |
| | CUT OFF CA | ASING | | | | SPECT | | | | | |
| DATUM TO | BRADENHE | - AD FLANGE | | | CONTRACT | — *OR & RIG | | Ross #14 | | | |
| TD DRILLER | 305' | LOGG | ER | | | | | | | | |
| HOLE SIZE | 12 1/4 | | | | | | | | | | |
| | | | | | | | | | | | |
| LOG OF CA | SING STRIN | G: | | | | | • | | | | |
| PIECES | OD | ITEM - | MAKE - DESC | RIPTION | WT / FT | GRD | THREAD | CONDT | LENGTH | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | shjt 42.75 | | | | <u>-</u> | | | | |
| | | WHI - 92 cs | g head | | | | 8rd | Α | 0.95 | | |
| 7 | 8 5/8" | Maverick S | | | 24# | J-55 | 8rd | Α | 296.81 | | |
| | | | GUIDE | shoe | | | 8rd | A | 0.9 | | |
| | ENTORY B | | FEET | JTS | TOTAL LENGTH OF STRING | | | 298.66 | | | |
| TOTAL LEN | GTH OF STE | RING | 298.66 | 7 | LESS CUT OFF PIECE | | | 1 | | | |
| LESS NON | CSG. ITEMS | | 1.85 | | PLUS DATUM TO T/CUT OFF CSG | | | 10 | | | |
| PLUS FULL | JTS. LEFT C | DUT | 0 | | CASING SET DEPTH 30 | | | 307.66 | | | |
| | TOTAL | | 296.81 | 7 | <u></u> | | | - | | | |
| TOTAL CSG | . DEL. (W/O | THRDS) | 296.81 | 7 | COMPARE | | | | | | |
| TIMING | | | 1ST STAGE | | | | | | | | |
| BEGIN RUN | CSG. | | SPUD | 04/25/2001 | GOOD CIRC THRU JOByes | | | | | | |
| CSG. IN HO | LE | | 9:00am | | Bbls CMT C | IRC TO SUR | FACE | 4 | | | |
| BEGIN CIRC | , | | | | RECIPROCA | ATED PIPE F | OR | _THRU | FT STROKE | | |
| BEGIN PUM | P CMT | | | | DID BACK P | PRES. VALVE | E HOLD ? | N/A | | | |
| BEGIN DSPI | L. CMT | | | | BUMPED PL | LUG TO | · | 155 | PSI | | |
| PLUG DOW | N | | Cemented | 05/04/2001 | | | <u> </u> | - | | | |
| CEMENT US | SED | | | CEMENT COI | MPANY- | BJ | | gen y - yeng | A CONTRACTOR OF THE STATE OF TH | | |
| STAGE #SX | | | CEMENT TYP | PE & ADDITIV | /ES | | \$ 10 mm | Contraction of the Contraction o | | | |
| 1 | 145 | Class "G" w | / 2% CaCL2 + | 1/4#/sk Cello-F | lake mixed @ | 2 15.8 ppg 1. | 17 cf/sk yiel | d A | | | |
| | | | | | | | | en in in | 37.5 | | |
| | | | | | | | | OIL, CASS | aca or Asid Liming | | |
| CENTRALIZ | ER & SCRAT | TCHER PLAC | CEMENT | | | SHOW MAK | E & SPACIN | | | | |
| Centralizers | s - Middle fir | st, top seco | and & third for | 3 | | | | | | | |
| | ··· | | | | | | | | | | |
| | | | - · <u>,</u> | | | | | | | | |

DATE ______05/04/2001

COMPANY REPRESENTATIVE Pat Wisener

STATE OF UTAH DIVISION OF OIL, GAS AND MINING

| DEDODT OF WATER | ENCOLINTERED | DURING | IIKII I | IN(÷ |
|-----------------|--------------|--------|---------|------|

| API number: | 43-013-32232 | | | | |
|--|---|-----------------------------------|--------------------------|-----------------|------------|
| Vell Location: | QQ SW/NW Section | on 27 Township 8S Ran | ge 17E County | Duchesne | |
| Vell Operator: | INLAND PRODUCTION | | | | |
| • | Route 3 Box 3630 | | | | |
| - | Myton, Utah 84052 | | | - Phone: 435 | 5-646-3721 |
| - Drilling Contracto | | | | | |
| _ | Drawer 40 | | | | |
| • | Buckhannon, WV 262 | 201 | | - Phone: 304 | 1-472-4610 |
| - | ed (attach additional pa | | | _ | |
| r | DEPTH | VOLUME | 1 01 | JALITY | |
| FRO | | (FLOW RATE OR HEAD) | | OR SALTY) | |
| 1604' | 1625' | No flow to surface | | | |
| | | | | | |
| in the same of the | | | | | |
| | | | Accepted to Utah Divis | y the | |
| | | | Accepted Divis | ion of | |
| | | | Oil, Gas and FOR RECO | ALINO UB | |
| | | | FOR RECU | | |
| | | | | | |
| | | | | | |
| Formation Tops: | Surface (Uinta | a) | | | |
| | | _ | _ | | |
| | | | | | |
| | | | ····· | | |
| | | | | . 11.1. č | V50 |
| - | | er encountered, please attach a c | | | YES |
| nereby certify th | iat this report is true an | d complete to the best of my know | wieage. Date: | 06/11/01 | |
| Name & Signatur | ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・ | ١. | | : 10:00 AM | |



P.O. Box 217 Roosevelt, Utah 84066 Office (435) 722-5066 Fax (435) 722-5727

WATER ANALYSIS REPORT

| Company INLAND PRODUC | CTION | Address | | | Date _ | 5/24/01 |
|---|-------|-----------------|-----------|----------|--------|---------|
| Source <u>GBU 7-27-8-17</u> | | Date Sampled_ | 5/24/01 | Analysis | No | |
| 1604 FL | An | aiyais | mg/l(ppm) | · | *Ma | eg/l |
| 1. PH | 9.3 | | | | | agy i |
| 2. H ₂ S (Qualitative) | 1.0 | | | | | |
| 3. Specific Gravity | 1.072 | | | | | |
| 4. Dissolved Solids | _ | | 80,900 | | | |
| 5. Alkalinity (CaCO ₃) | | CO ₃ | 9,000 | + 30 | 300 | co |
| 6. Bicarbonate (HCO ₃) | | HCO, _ | 4,880 | +61 | 80 | HCO, |
| 7. Hydroxyl (OH) | | он | | ÷ 17 | | OH |
| 8. Chlorides (Cl) | | CI | 35,400 | ÷ 35.5 | 997 | C |
| 9. Sulfates (SO ₄) | | SO, _ | 0 | | 0 | so, |
| 10. Calcium (Ca) | | Ca | 10 | ÷ 20 | 1 | Ca |
| 11. Magnesium (Mg) | | MG | 54 | + 12.2 | 4 | |
| 12. Total Hardness (CaCO ₃) | | <u> </u> | 250 | _ | | |
| 13. Total Iron (Fe) | | · | 3.6 | | | |
| 4. Manganese | | | 0.8 | | | |
| 5. Phosphate Residuals | | | | _ | | |
| , | | | | | | |

PROBABLE MINERAL COMPOSITION

| | e | Compound | Equiy. Wt. | X Meg/l | ≖ Mg/l |
|--------------------|----------------------|------------------------------------|------------|----------|-------------|
| 1 Ca | HCO ₃ 380 | Ca(HCO ₃) ₂ | 81.04 | _1 | 81 |
| | | CaSO4 | 68.07 | | |
| 4 Mg | so, 0 | CaCl ₂ | 55.50 | | |
| - | | Mg(HCO ₃) ₂ | 73.17 | 4 | 293 |
| 1,372 Na | 997 | _ MgSO₁ | 60.19 | | |
| \$aturation Values | Distilled Water 20°C | MgCl ₂ | 47.52 | <u> </u> | |
| ÇaCO₁ | 13 Mg/l | NaHCO ₁ | 84.00 | 375 | 31,500 |
| Gaso4 · 2Hzo | 2,090 Mg/l | Na ₂ SO ₄ | 71.03 | | _ |
| MgCO ₃ | 103 Mg/l | NaCl | 59.46 | 997 | 58,285 |
| Na = 31, | 556 | | | | |
| EMARKS | | | | | |

^{*}Milli equivalents per liter

| FORM to the June 197 | OFFIAR OF AND MANAGEMENT | FORM APPROVED Budget Bureau No. 1004-0135 Uxpires: March 31, 1993 |
|--|--|---|
| | INDRY NOTICES AND REPORTS ON WELLS | 5. Lease Designation and Serial No UTU-76241 |
| Do not use this | the state of state of the deepen or reentry a stifferent reservoir. 2. APPLICATION FOR PERMIT -" for such proposals | 6 If Indian, Allottee or Tribe Name NA |
| | SUBMIT IN TRIPLICATE | 7 If Unit or CA. Agreement Designation GREATER BOUNDARY |
| X Special W | | 8. Well Name and No. GREATER BOUNDARY 7-27-8-17 9. API Well No. |
| 2 Name of 1811 1 3 Address (1912 1999) | a sarayonipany | 43-013-32232 10 Field and Pool, or Exploratory Area MONUMENT BUTTE |
| R1. 3 Box 2 | Viv. in 19 na. 84652 435-646-3721 | 14 County or Parish, State |
| 2085 FN. | SW NF. Section 27, T08S R174 | DUCHESNE COUNTY, UTA |
| TYPI | SUBJECT SON TO INDICATE NATURE OF NOTICE, RESUMESSION TYPE | PORT, OR OTHER DATA OF ACTION |
| | Abandence of Reconnect in Plugging reak Casing Recon Altering Connect Nother Status Report | Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water (Note Report results of multiple completion on Well Completion or Recompletion Report and Log form.) |
| 13 Desember 1 | en e | |
| Status (1990) Subject 1 (c) fractury (1/2) | Three Green River in the second of the secon | |
| | | |
| | | 10 (10 (10 (10 (10 (10 (10 (10 (10 (10 (|
| 14 Thereby | Xan Suif Fale Completion Foreman | Date 7/9/01 |
| (The sec | | |

Date

 $\lambda pp \sim$

Condition of GC orbits of

FORM 3160-5 (June 1990)

UNITED STATES DEPAR ON TOF THE INTERIOR BUREAU OF LAND MANAGEMENT

| FORM APPROVED |
|-----------------------------|
| Budget Bureau No. 1004-0135 |
| Expires: March 31, 1993 |

5. Lease Designation and Serial No. **SUNDRY NOTICES AND REPORTS ON WELLS** UTU-76241 Do not use this form for proposals to drill or to deepen or reentry a different reservoir. 6. If Indian, Allottee or Tribe Name Use "APPLICATION FOR PERMIT -" for such proposals NA 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE GREATER BOUNDARY 1. Type of Well 8. Well Name and No. Oil Gas X **GREATER BOUNDARY 7-27-8-17** Well Other 9. API Well No. 43-013-32232 2 Name of Operator INLAND PRODUCTION COMPANY 10. Field and Pool, or Exploratory Area **MONUMENT BUTTE** 3. Address and Telephone No Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721 11. County or Parish, State 4. Location of Well (Footage, Sec., T., R., m., or Survey Description) 2085 FNL 2203 FWL SW/NE Section 27, T08S R17E DUCHESNE COUNTY, UTAH CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Notice of Intent Abandonment Change of Plans Recompletion **New Construction** Non-Routine Fracturing Subsequent Report Plugging Back Casing Repair Water Shut-Off Final Abandonment Notice Altering Casing Conversion to Injection Other Status Report Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)* Status report for time period 7/9/01 through 7/15/01. Subject well had completion procedures initiated on 7/2/01. A total of five Green River intervals were perforated and hydraulically fracture treated W/ 20/40 mesh sand. Bridge plugs and sand plugs were removed from wellbore. Zones were swab tested to clean up sand. Production equipment was ran in well. Well began producing on rod pump on 7/13/01. 14. I hereby certify that the foregoing is

14. I hereby certify that the foregoing is the and corect
Signed
Gary Dietz

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by
Conditions of approval, if any:

CC: Utah DOGM

ED STATES **DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT**

SUBMIT IN DUPLICATE* FORM APPROVED (See of struction reverse side)

OMB NO. 1004-0137

Expires: February 28, 1995

5. LEASE DESIGNATION AND SERIAL NO.

| UTU-76241 |
|-----------|
|-----------|

| WELL | CON | IPL | ETION | OR | RECO | MP | LETION | I RE | PORT | Α | ND LOG* | | 6. IF INDIAN | | OR TRIBE NAME |
|---|---|-------------|------------------------------|-------------------------|--|---|-------------------------|---------------------------------------|---|----------------------------|--|---|----------------------------|-----------------------|------------------------|
| la. TYPE OF WORK OIL WELL | | | | X | GAS WELL | | DRY | | Other | _ | | | 7. UNIT AGE Gr | | AME Dundary Unit |
| NEW X | L WORK OVER | | DEEPEN | 8. FARM OR LEASE NA | | | | | | | ME, WELL NO. 7-27-8-17 | | | | |
| 2. NAME OF OPERATO | OR | | 1 | NII ANI | D BESO | LID | CES INC | , | | | | | 9. WELL NO | | 2 22222 |
| 3. ADDRESS AND TEL | | | | | | | | + | 43-013-32232 10. FIELD AND POOL OR WILDCAT | | | | | | |
| 4.10 17th St. Suite 700 Der 4. LOCATION OF WELL (Report locations clearly and in accordance with any statement of the control | | | | | | | | | | | | Monument Butte | | | |
| 4. LOCATION OF WAS Surface 2085 | /ELL (Rep | ort lo | cations clearly)3' FFI S | yandina WNF | Sec. 27 | ith any TAS | / State require R17F | ments.* | ') | | | | 11. SEC., T., I OR AREA | R., M., OR BL | OCK AND SURVEY |
| At top prod. Interval reported below | | | | VIII. 000. 27 100 IVITE | | | | | | | Sec. 27, Twp. 8 S. Rng. 17E | | | | |
| At total depth | | | | 14. API NO. | | | | DATE ISSUED | | | 1 | 2. COUNTY | | 13. STATE | |
| A SA TE COMPANY AND A SA TE TO A S | | | s comp | | 43-013-32232 | | - 10 | 2/27/01 | | | Duchesne TC)* | | | UT | |
| 15. DATE SPUDDED 4/25/01 | | | | 17. 0 | 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, RKB, RT, GR, ETC.) 7/13/01 5146' GR | | | | | | 5156' KI | 3 | 19. ELEV. CASINGHEAD | | |
| 20. TOTAL DEPTH, MI | D & TVD | | 21. PLUG BAC | CK T.D., M | D & TVD | | 22. IF MULTII | | MPL., | 2 | 3. INTERVALS | ROTA | RY TOOLS | | CABLE TOOLS |
| 6270' KE | 3 | | 6 | 248' K | B | | HOW MAN | ΛY* | | ļ | DRILLED BY | | Х | | |
| | | OF THE | | | | ME (M | ID AND TVD)* | | | | | .L | ^ | | 25. WAS DIRECTIONAL |
| 24. PRODUCING INTERVAL(S), OF THIS COMPLETIONTOP, BOTTOM, NAME (MD AND TVD)* Green River 4627'-6174' | | | | | | | | | | | SURVEY MADE NO | | | | |
| 26. TYPE ELECTRIC A | ND OTHER | R LOG | S RUN - | | | 3L / 8 | | | - 2-2 | | | | | | 27. WAS WELL CORED NO |
| 23. CASING SIZE/ | /GP ADE | т | WEIGHT, | ID/CT | | | | | strings set in | we | | CNT OCN | (EVENIC DE | 2000 | |
| 8-5/8" - | | _ | 24 | | | | TH SET (MD) 07.66' | | 2-1/4" | | | ENT, CEMENTING RECORD rith 145 sx Class "G" cmt | | AMOUNT PULLED | |
| 5-1/2" - | | _ | 15. | 5# | 62 | 269. | 269.13' | | 7-7/8" | | | te II and 575 sx 50/50 Poz | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | I | | | | | |
| SIZE | | TOP (| | ER RECO | | T 6. | CKS CEMENT | • I c | SCREEN (MD) | 3 | 0. SIZE | | UBING RE | | 0.0000.000 |
| SIZE TOP (MD) | | <i>,,,,</i> | BOTTOM (MD) | | | SACKS CEIVIENT | | SCREEN (MD) | ╁ | 2-7/8" | DEPTH SET (MD) EOT @ | | PACKER SET (MD) TA @ | | |
| | | | | | | | | \dashv | | | | 6153' KB | | 6051' KB | |
| 31. PERFORATION R | | | , size and num | | | | | | 32. ACID, SHOT, F | | | FRACTURE, CEMENT SQUEEZE, ETC. | | | |
| | <u>rerval</u> | | | SIZE | | NUMBER | | \perp | DEPTH INTERVAL (MD) | | | AMOUNT AND KIND OF MATERIAL USED | | | |
| (CP sands) 5931-35', 5962-76', 6023-30', | | | | 0.38" | | - | 153 | | 5931'-6174' | | Frac w/ 213,203 # 20/40 sa | | | and & 1297 bbl fluid. | |
| 6070-74', 6132-40', 6160-74' | | | 0.201 | | | 165 | | 57401 50041 | | | Note: Frac sand was radioa | | | | |
| (LODC sand) 5710-13', 5118-27, 5745-54', | | | 0.38" | | | 100 | | 5710'-5824' | | Frac w/ 471,789 # 20/40 sa | | | | | |
| 5769-75', 5780-90', 5795-5804, 5814-24' (A sand) 5510-19', 5594-98', 5602-06', | | | 0.38" | | | 96 | | 5510'-5625' | | 625' | Note: Frac sand was rac Frac w/ 154,860 # 20/40 s | | | | |
| 5616-18', 5620-25'. | | | 002-00, | 0.50 | | | | | 5010 5020 | | 023 | rial | C W/ 154,60 | 0 # 20/40 8 | sand & 905 bbi fluid |
| (C&D sands) 5007-11', 5023-26', | | | 3-26', | 0.38" | | | 68 | | 5007'-5274' | | Frac w/ 75,190 # 20/40 sa | | | and & 571 bbl fluid | |
| 5036-43', 5271-74'. | | | | | | | | | | | | | | | |
| (GB sand) 4627-29', 4647-52'. | | | | 0 | 0.38" | | | 28 | | 4627'-4652' | | Frac w/ 33,180 # 20/40 sand & 304 bbl | | | and & 304 bbl fluid |
| 33.* | | | | | | | PRODU | | | | | | | | |
| | 7/13/01 2-1/2" x 1-1/2" x 15' RHAC Pump | | | | | | | ATUS (Producing or shut-in) PRODUCING | | | | | | | |
| DATE OF TEST | | HOUL | RS TESTED | СНО | KE SIZE | | T PERIOD | OILBB | | . G | ASMCF | WATER | BBL | | GAS-OIL RATIO |
| 10 day ave | | CASI | NG PRESSURE | CALC | CULATED | <u>L. </u> | OIL-BBL. | | 117.9 GASMCF. | L | 174.6 | WATER | 26.3 | Off CB A347 | 1481 FY-API (CORR.) |
| | CASING PRESSURE CALCULATED OIL-BBL. GASMCF. | | OIL GRAVII | | | 11-AFI (CORR.) | | | | | | | | | |
| 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold & Used for Fuel TEST WITNESSED BY | | | | | | | | | | | | | | | |
| 35. LIST OF ATTACHN | | 1 | | 11 | | | | | | | | | | | |
| 36. I hereby certify til | at the fore | going | and aftaghed | informati | on is comple | te and | | | | | | | | | |
| SIGNED | |) <u>/</u> | MI | n | ~ | | TITLE | Ma | nager of l | De | evelopment | Opera | ations | DATE | |
| Kevin | S. Weller | | - - | | | | | | | | | | | , | BDI |

| recoveries); FORMATION | ТОР | воттом | DESCRIPTION, CONTENTS, ETC. | | ТОР | |
|------------------------|-----|--------|----------------------------------|----------------------|---------------|---------------------|
| | | | | NAME | MEAS. DEPTH | TRUE VERT. DEPTH |
| | | | Greater Boundary Unit #7-27-8-17 | Garden Gulch Mkr | 4090' | |
| | | | | Garden Gulch 2 | 4090 4388' | |
| | | | | Point 3 Mkr | 4666' | |
| | | | | X Mkr | 4890' | ĺ |
| | | | | Y-Mkr | 4927' | |
| | | | | Douglas Creek Mkr | 5060' | |
| | | | | BiCarbonate Mkr | 5362' | |
| | | | | B Limestone Mkr | 5460' | |
| | | | | Castle Peak | 5912' | |
| | | | • | Basal Carbonate | | |
| | | · | | Total Depth (LOGGERS | 6270' | |
| | | | | | | |
| | • | | | | | |
| | | | | | | |
| | | | | - | | <u>{</u> |
| | | ļ | | | | |
| | } | | | | | |
| | | | | | | |
| | | ļ | | | | |
| | | | | | | [|
| | | | | | | |
| | | | | | | |
| | | | | [| | |
| | | | | | | |
| | | | | | | |
| | | | | 1 | | |
| | | | | | | |
| <u>.</u> | | | | i | | |



August 22, 2001

State of Utah, Division of Oil, Gas and Mining Attn: Ms. Carol Daneils P.O. Box 145801 Salt Lake City, Utah 84144-5801

Attn: Ms. Carol Daneils

Greater Boundary Unit #3-27-8-17 Greater Boundary Unit #7-27-8-17

Duchesne County, UT

Dear Ms. Carol Daneils

Enclosed is a Well Completion or Recompletion Report and Log form (Form 3160-4). We are no longer sending Log copies since Dave Jull of Phoenix Surveys is already doing so.

If you should have any questions, please contact me at (303) 893-0102 ext. 1449

Sincerely,

Brian Harris Engineering Tech

Enclosures

cc: Bureau of Land Management

Vernal District Office, Division of Minerals

Attn: Edwin I. Forsman 170 South 500 East Vernal, Utah 84078

Well File – Denver Well File – Roosevelt Patsy Barreau/Denver Bob Jewett/Denver

RECEIVED

AUS 27 2001

DIVISION OF OIL, GAS AND MINING



United States Department of the Interior



BUREAU OF LAND MANAGEMENT Utah State Office P.O. Box 45155 Salt Lake City, UT 84145-0155 http://www.blm.gov

IN REPLY REFER TO: 3106 (UT-924)

September 16, 2004

Memorandum

To:

Vernal Field Office

From:

Acting Chief, Branch of Fluid Minerals

Subject:

Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Milas L Contas

Michael Coulthard Acting Chief, Branch of Fluid Minerals

Enclosure

1. State of Texas Certificate of Registration

cc:

MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225 State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114

Teresa Thompson Joe Incardine Connie Seare

| | | | • * | |
|---------|--------|--------|--------|--------------------|
| UTSL- | 15855 | 61052 | 73088 | 76561 |
| 071572A | 16535 | 62848 | 73089 | 76787 |
| 065914 | 16539 | 63073B | 73520A | 76808 |
| · | 16544 | 63073D | 74108 | 76813 |
| | 17036 | 63073E | 74805 | 76954 |
| | 17424 | 63073O | 74806 | 76956 |
| | 18048 | 64917 | 74807 | 77233 |
| UTU- | 18399 | 64379 | 74808 | 77234 |
| | 19267 | 64380 | 74389 | 77235 |
| 02458 | 26026A | 64381 | 74390 | 77337 |
| 03563 | 30096 | 64805 | 74391 | 77338 |
| 03563A | 30103 | 64806 | 74392 | 77339 |
| 04493 | 31260 | 64917 | 74393 | 77357 |
| 05843 | 33992 | 65207 | 74398 | 77359 |
| 07978 | 34173 | 65210 | 74399 | 77365 |
| 09803 | 34346 | 65635 | 74400 | 77369 |
| 017439B | 36442 | 65967 | 74404 | 77370 |
| 017985 | 36846 | 65969 | 74405 | 77546 |
| 017991 | 38411 | 65970 | 74406 | 77553 |
| 017992 | 38428 | 66184 | 74411 | 77554 |
| 018073 | 38429 | 66185 | 74805 | 78022 |
| 019222 | 38431 | 66191 | 74806 | 79013 |
| 020252 | 39713 | 67168 | 74826 | 79014 |
| 020252A | 39714 | 67170 | 74827 | 79015 |
| 020254 | 40026 | 67208 | 74835 | 79016 |
| 020255 | 40652 | 67549 | 74868 | 79017 |
| 020309D | 40894 | 67586 | 74869 | 79831 |
| 022684A | 41377 | 67845 | 74870 | 79832 |
| 027345 | 44210 | 68105 | 74872 | 79833 [,] |
| 034217A | 44426 | 68548 | 74970 | 79831 |
| 035521 | 44430 | 68618 | 75036 | 79834 |
| 035521A | 45431 | 69060 | 75037 | 80450 |
| 038797 | 47171 | 69061 | 75038 | 80915 |
| 058149 | 49092 | 69744 | 75039 | 81000 |
| 063597A | 49430 | 70821 | 75075 | |
| 075174 | 49950 | 72103 | 75078 | |
| 096547 | 50376 | 72104 | 75089 | |
| 096550 | 50385 | 72105 | 75090 | |
| | 50376 | 72106 | 75234 | |
| | 50750 | 72107 | 75238 | |
| 10760 | 51081 | 72108 | 76239 | |
| 11385 | 52013 | 73086 | 76240 | |
| 13905 | 52018 | 73087 | 76241 | |
| 15392 | 58546 | 73807 | 76560 | |
| | | | | |

63073X 63098A 68528A 72086A 72613A 73520X 74477X 75023X 76189X 76331X 76788X 77098X 77107X 77236X 77376X 78560X 79485X 79641X 80207X 81307X

Corporations Section P.O.Box 13697 Austin, Texas 78711-3697



Geoffrey S. Connor Secretary of State

Office of the Secretary of State

The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.





Secretary of State

ARTICLES OF AMENDMENT TO THE ARTICLES OF INCORPORATION OF INLAND PRODUCTION COMPANY

In the Office of the Secretary of State of Texas

SEP 02 2004

Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 - Name

The name of the corporation is Inland Production Company.

ARTICLE 2 - Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE - The name of the corporation is Newfield Production Company."

ARTICLE 3 - Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1st day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs, Treasurer

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

1. GLH 2. CDW 3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

X Operator Name Change

Merger

| The operator of the well(s) listed below has changed, effective: | 9/1/2004 | | | | |
|--|-----------------------------------|--|--|--|--|
| FROM: (Old Operator): | TO: (New Operator): | | | | |
| N5160-Inland Production Company | N2695-Newfield Production Company | | | | |
| Route 3 Box 3630 | Route 3 Box 3630 | | | | |
| Myton, UT 84052 | Myton, UT 84052 | | | | |
| Phone: 1-(435) 646-3721 | Phone: 1-(435) 646-3721 | | | | |
| CANO | Unit. CDEATED DOUNDARY (CD) | | | | |

| | Unit: | GREATER BOUNDARY (GR) | | | | | | |
|----------------------------|-------|-----------------------|------|------------|--------------|---------------|--------------|----------------|
| WELL(S) | | | | | | | | |
| NAME | SEC | TWN | RNG | API NO | ENTITY NO | LEASE TYPE | WELL TYPE | WELL STATUS |
| GBU 3-27-8-17 | 27 | 080S | 170E | 4301332224 | | Federal | WI | A |
| GBU 5-27-8-17 | 27 | 080S | 170E | 4301332225 | 12391 | Federal | ow | P |
| GBU 12-27-8-17 | 27 | 080S | 170E | 4301332226 | | Federal | ow | P |
| GBU 1-27-8-17 | 27 | 080S | 170E | 4301332228 | 12391 | Federal | ow | P |
| GBU 2-27-8-17 | 27 | 080S | 170E | 4301332229 | 12391 | Federal | OW | P |
| GBU 4-27-8-17 | 27 | 080S | 170E | 4301332230 | 12391 | Federal | ow | P |
| GBU 6-27-8-17 | 27 | 080S | 170E | 4301332231 | 12391 | Federal | ow | P |
| GBU 7-27-8-17 | 27 | 080S | 170E | 4301332232 | 12391 | Federal | ow | P |
| GBU 8-27-8-17 | 27 | 080S | 170E | 4301332233 | 12391 | Federal | ow | P |
| GBU 9-27-8-17 | 27 | 080S | 170E | 4301332234 | 12391 | Federal | OW | P |
| GBU 10-27-8-17 | 27 | 080S | 170E | 4301332235 | 12391 | Federal | ow | P |
| GBU 11-27-8-17 | 27 | 080S | 170E | 4301332243 | 12391 | Federal | ow | P |
| GBU 13-27-8-17 | 27 | 080S | 170E | 4301332244 | 12391 | Federal | ow | P |
| GBU 14-27-8-17 | 27 | 080S | 170E | 4301332245 | 12391 | Federal | ow | Р |
| TAR SANDS FED 9-28-8-17 | 28 | 080S | 170E | 4301332067 | | Federal | WI | Α |
| TAR SANDS FED 8-28-8-17 | 28 | 080S | 170E | 4301332068 | 12391 | Federal | ow | P |
| TAR SANDS FED 7-28-8-17 | 28 | | | 4301332069 | | Federal | WI | A |
| TAR SANDS FED 15-28-8-17 | 28 | 080S | 170E | 4301332109 | | Federal | WI | Α |
| TAR SANDS FED 16-28-8-17 | 28 | 080S | 170E | 4301332111 | | Federal | ow | P |
| GREATER BOUNDARY 11-28-8-1 | 7 28 | 080S | 170E | 4301332134 | 12391 | Federal | WI | A |
| | | | | | | | | - |

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

(R649-8-10) Sundry or legal documentation was received from the FORMER operator on:
 (R649-8-10) Sundry or legal documentation was received from the NEW operator on:
 9/15/2004

3. The new company was checked on the **Department of Commerce**, **Division of Corporations Database on**: 2/23/2005

4. Is the new operator registered in the State of Utah:

YES Business Number: 755627-0143

5. If NO, the operator was contacted contacted on:

| b. Inspections of . Federal ar or operator ch | ste Management Plan has been red FLA PA state/fee well sites complete and Indian Lease Wells: The lange for all wells listed on Federa | ete on: | IN PLACE waived | | | |
|--|--|---------------------|-----------------------|---------------------|------------------|----------------------|
| . Federal ar | nd Indian Lease Wells: The | | warvou | | | |
| or operator ch | | RI M and or the | | | | |
| Federal ar | | | | oved the n | nerger, n | ame change, BIA |
| The BLM o | nd Indian Units: r BIA has approved the successor | of unit operator | for wells listed or | : | n/a | - |
| | nd Indian Communization r BIA has approved the operator for | • | • • | | na/ | _ |
|). Undergr | ound Injection Control ("U | JIC") The D | ivision has appro | ved UIC For | m 5, Tran | sfer of Authority to |
| ~ | enhanced/secondary recovery uni | • | water disposal we | ell(s) listed o | on: | 2/23/2005 |
| ATA ENTR | Y: | | | | | |
| Changes enter | red in the Oil and Gas Database o | on: | 2/28/2005 | | | |
| Changes have | been entered on the Monthly Op | erator Change S | Spread Sheet on | : <u>_</u> | 2/28/2005 | _ |
| Bond informa | tion entered in RBDMS on: | | 2/28/2005 | | | |
| Fee/State well | ls attached to bond in RBDMS on: | : | 2/28/2005 | | | |
| Injection Proj | ects to new operator in RBDMS o | n: | 2/28/2005 | | | |
| Receipt of Ac | ceptance of Drilling Procedures for | or APD/New on: | | waived | | |
| EDERAL W | ELL(S) BOND VERIFICA | ATION: | | | | |
| Federal well(s | s) covered by Bond Number: | | UT 0056 | | | |
| IDIAN WEI | L(S) BOND VERIFICATI | ION: | | | | |
| Indian well(s) | covered by Bond Number: | | 61BSBDH2912 | | | |
| | E WELL(S) BOND VERIF | | hy Rand Number | · 611 | BSBDH29 | 10 |
| (R049-3-1) 11 | ie 14E44 operator of any fee weng | s) listed covered | by Bolid Nulliber | - 011 | 03001127 | - |
| | R operator has requested a release cent response by letter on: | of liability from t | their bond on: n/a | n/a* | | |
| EASE INTE | REST OWNER NOTIFIC | ATION: | | | | |
| | he FORMER operator of the fee valid interest owner as in the second of the fee was a subject to the feet with the feet was a subject to the feet was | | | med by a let n/a | ter from th | e Division |
| OMMENTS: | | | | | | |
| Bond rider chang | ged operator name from Inland Pro | oduction Compan | y to Newfield Pro | oduction Cor | mpany - re | ceived 2/23/05 |

4301332232



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18TH STREET - SUITE 300
DENVER, CO 80202-2466
Phone 800-227-8917
http://www.epa.gov/region08
APR 1 3 2005

Ref: 8P-W-GW

<u>CERTIFIED MAIL</u> RETURN RECEIPT REQUESTED

Mr. Mike Guinn Vice President - Operations Newfield Production Co. Route 3 - Box 3630 Myton, Utah 84502 Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY

RE: ADDITIONAL WELL TO AREA PERMIT

Boundary Area Permit: UT20702-00000

Greater Boundary No. 7-27-8-17

Well ID: 20702-06485 SW NE Sec. 27 - T8S - 17E Duchesne County, Utah

Dear Mr. Guinn:

The Newfield Production Co. (Newfield) request to convert a former Green River Formation oil well, the Greater Boundary No. 7-27-8-17, to a Garden Gulch-Douglas Creek-Basal Carbonate Members of the Green River Formation enhanced recovery injection well in the Boundary Area Permit is hereby authorized. The proposed Greater Boundary No. 7-27-8-17 Class II enhanced recovery injection well is within the exterior boundary of the Boundary Area Permit UT20702-00000; is within the exterior boundary of the Uintah & Ouray Indian Reservation; and the addition is being made under the authority of 40 CFR § 144.33 (c) and the terms of the Area Permit. Unless specifically mentioned in the enclosed Authorization For An Additional Well, all terms and conditions of the original Area Permit will apply to the conversion, operation, monitoring, and plugging and abandonment of the Greater Boundary No. 7-27-8-17.

APR 1 5 2005

DIV. OF OIL, GAS & MINING

Prior to beginning injection, the Environmental Protection Agency (EPA) requires that Newfield submit for review and approval (1) the results of a Part I (Internal) mechanical integrity test (MIT), (2) a pore pressure calculation of the injection interval, (3) an EPA Form No. 7520-12 (Well Rework Record, enclosed).

Part II. Section C. Condition No. 4 (b), (<u>Injection Pressure Limitation</u>), Greater Boundary Area Permit (UT20702-00000), cites the method by which the maximum allowable injection pressure (MAIP) shall be calculated for each Additional Well to the Boundary Area Permit. As a result, the MAIP for the Greater Boundary No. 7-27-8-17 shall not exceed **1380 psig**. The Boundary Area Permit, Part II. C. 4., provides an opportunity for the permittee to request an increase, or decrease, in the initial maximum surface injection pressure.

Because the Cement Bond Log (CBL) submitted for this well did not show any 80% bond index cement bond within the Confining Zone overlying the Garden Gulch Member, the operator shall be required to demonstrate Part II (External) Mechanical Integrity within a 180-Day Limited Authorization to Inject period. This demonstration may be made by a Temperature Survey, Noise Log, or Oxygen Activation Log, and Region 8 may accept the results from a Radioactive Tracer Survey (RATS) under certain circumstances. A limited period of authorization to inject is for the purpose of stabilizing the injection zone prior to this demonstration.

Current copies of Guidances for conducting Part II (External) Mechanical Integrity Tests will be submitted upon request.

Please be aware that Newfield does not have authorization to begin injection into the Greater Boundary No. 7-27-8-17 until the <u>Prior to Commencing Injection</u> requirements, listed above, have been submitted and evaluated by the EPA, and Newfield has received written authorization to begin injection from the Assistant Regional Administrator, or the Assistant Regional Administrator's authorized representative.

If Newfield has any questions, please call Mr. Dan Jackson at (800) 227-8917 (Ext. 6155), or in the Denver area at (303) 312-6155. Please submit the required preauthorization to inject data to <u>ATTENTION: DAN JACKSON</u>, at the letterhead address, citing <u>MAIL CODE: 8P-W-GW</u> very prominently.

Sincerely,

Carl S. Carpbell for Stephen S. Tuber

Assistant Regional Administrator

Office of Partnerships and Regulatory Assistance

enclosures: Authorization For Conversion of An Additional Well

EPA Form No. 7520-12 (Well Rework Record)

Guidance No. 39: Part I Mechanical Integrity (Internal)

Schematic Diagram: Proposed Conversion

cc w/ enclosures: Maxine Natchees

Chairperson

Uintah & Ouray Business Committee

Ute Indian Tribe

Elaine Willie

Environmental Coordinator

Ute Indian Tribe

Chester Mills

Superintendent

Bureau of Indian Affairs

Uintah & Ouray Indian Agency

David Gerbig

Operations Engineer

Newfield Production Company

Denver, CO 80202

Gil Hunt

Technical Services Manager

State of Utah - Natural Resources

Kirk Fleetwood

Petroleum Engineer

Bureau of Land Management

Vernal District



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

999 18™ STREET - SUITE 300 DENVER, CO 80202-2466 Phone 800-227-8917 http://www.epa.gov/region08

AUTHORIZATION FOR AN ADDITIONAL WELL TO THE BOUNDARY AREA PERMIT: UT20702-00000

The Environmental Protection Agency (EPA) authorizes the inclusion of an additional enhanced recovery injection well to the Boundary Area Permit No. UT20702-00000, as authorized by 40 CFR § 144.33 (c). The additional well is described as:

WELL NAME: GREATER BOUNDARY NO. 7-27-8-17

WELL PERMIT NUMBER: UT20702-06485

2085' FNL & 2203' FEL (SW NE) SURFACE LOCATION:

Sec. 27 - T8S - R17E Duchesne County, Utah.

This well is subject to all provisions of the original Boundary Area Permit No. UT20702-00000, and subsequent Modifications, unless specifically detailed below:

UNDERGROUND SOURCE OF DRINKING WATER (USDW): The base of the USDW (Total Dissolved Solids less than 10,000 mg/l) occurs within the Uinta Formation less than 50 feet from ground level (GL). The source for the location of the base of the USDW is the STATE OF UTAH: PUBLICATION NO. 2. BASE OF MODERATELY SALINE GROUND WATER IN THE UINTA BASIN, UTAH. Surface casing was set at 307 feet kelly bushing (KB) and

Reference: http://NRWRT1.NR.STATE.UT.US...Water Rights...Queries...POD: Within cemented to the surface. the one-quarter (1/4) mile Area-of-Review (AOR) around the Greater Boundary No. 7-27-8-17 there are no reservoirs, streams, springs or wells.

WATER ANALYSES:

Produced Green River Formation Water: (6/24/04) 12,005 mg/l TDS.

Source Water: Johnson Water District Reservoir. (3/31/04) 400 mg/l TDS.

Blended Injectate: (6/30/01) 6719 mg/l TDS.

CONFINING ZONE REVIEW: GREATER BOUNDARY NO. 7-27-8-17.

The EPA has authorized the gross interval from the top of the Garden Gulch Member to the top of the Wasatch as the enhanced recovery injection interval within the Boundary Area Permit. Overlying the top of the Garden Gulch Member (4092 feet), in the Greater Boundary No. 7-27-8-17, are thirty-one (31) feet of Green River Formation black, slightly silty, impervious shale which forms an effective lithologic **confining zone 4061 feet to 4092 feet**.

INJECTION ZONE REVIEW: GREATER BOUNDARY NO. 7-27-8-17.

The Greater Boundary No. 7-27-8-17 Final Area Permit (Effective February 8, 1994) authorized injection into the Douglas Creek Member of the Green River Formation. By Major Permit Modification No. 3 (Effective May 19, 2003), the EPA authorized the gross Green River Formation Garden Gulch-Douglas Creek-Basal Carbonate Members as the enhanced recovery injection interval for the Boundary Area Permit. This Modification also recognized the Federal No. 1-26 (NE NW Sec. 26 - T8S - R17E), UIC Permit No. UT20702-04671, as the TYPE WELL for identifying the tops of the Garden Gulch Member, the Douglas Creek Member, the Basal Carbonate Member, the top of the Wasatch Formation and the "Confining Zone" overlying the top of the Garden Gulch Member.

The authorized injection zone for the Greater Boundary No. 7-27-8-17 will be from the Garden Gulch Member (4092 feet) to the top of the Wasatch Formation (Estimated to be 6441 feet).

Lithologically, the gross authorized enhanced recovery injection interval, Garden Gulch to the top of the Wasatch Formation, is fluvial and lacustrine shale, fluvial and lacustrine sandstone, lacustrine marlstone, and limestone. The Uinta and Green River Formations are predominantly non-lacustrine fluvial shale and sandstone on the basin margins, whereas lacustrine deposition predominates in the central basin area for these two formations. The Wasatch Formation is predominantly fluvial, except for increasing minor lacustrine deposition in the central basin area.

WELL CONSTRUCTION REVIEW: GREATER BOUNDARY NO. 7-27-8-17.

SURFACE CASING: 8-5/8 inch casing is set at 307 feet in a 12-1/4 inch hole, using 145 sacks of Class "G" cement circulated to the surface. The base of the USDW is less than fifty (50) feet from ground level.

LONGSTRING CASING:

5-1/2 inch casing is set at 6269 feet kelly bushing (KB) in a 7-7/8 inch hole, and cemented with 350 sacks of Premium Lite II mixed and 575 sacks of 50/50 Pozmix.

The operator identifies the top of cement at 720 feet.

The EPA analysis of the CBL/GR identifies 80% cement bond index from 4136 feet to 4468 feet.

An EPA analysis of the Greater Boundary No. 7-27-8-17 CBL/GR did not identify continuous 80% bond index cement bond across the Garden Gulch Member confining zone, pursuant to standards of Region 8 GROUND WATER SECTION GUIDANCE NO. 34:

Cement Bond Logging Techniques and Interpretation. Therefore, it has been determined that the cement in this well may not provide an effective barrier to upward movement of fluids through vertical channels adjacent to the wellbore, pursuant to 40 CFR 146.8 (a) (2). The permittee will be required to demonstrate Part II Mechanical Integrity (MI) within a 180-day period of limited authorization to inject

PART II. A. CONSTRUCTION REQUIREMENTS FOR ADDITIONAL WELLS

Tubing and Packer:

(Condition 3)

For injection purposes, the **Greater Boundary No. 7-27-8-17** shall be equipped with 2-7/8 tubing with a packer to be set at a depth no higher than 100 feet above the top perforation.

Formation Testing and Logging

(Condition 6)

- (a) Upon conversion of the **Greater Boundary No. 7-27-8-17**, the permittee is required to determine the injection zone **fluid pore pressure** (static bottom hole pressure) prior to commencement of enhanced recovery injection operation. The results of this test shall be submitted to the EPA.
- (b) A Step-Rate Test (SRT) shall be performed on the Greater Boundary
 No. 7-27-8-17 within three (3) to six (6) months after injection operations are initiated and the results submitted to the EPA. The permittee may contact the EPA prior to conducting the SRT to acquire the most current Guidance for conducting the SRT.

PART II. B.

Corrective Action

As of March 2005, there are four (4) active Green River oil wells within the one-quarter (1/4) mile radius around the Greater Boundary No. 7-27-8-17. No wells need Corrective Action.

Garden Gulch-Douglas Creek Members Oil Well:

Greater Boundary No. 2-27-8-17: NW SE Sec. 27 -T8S-R17E

Top Garden Gulch Member: 4106feet

Garden Gulch Confining Zone: 4052 feet to 4106 feet Top 80% EPA Cement Bond: 4074 feet - 4092 feet

Top Douglas Creek Member: 5098 feet Top Basal Carbonate Member: 6242 feet

Total Depth (Driller): 6304 feet in Basal Carbonate Member

The 54-foot confining shale overlying the top of the Garden Gulch Member is protected by 80% bond index cement bond. This confining zone annulus cement may prevent upward movement of injected fluids through vertical channels adjacent to the well bore. Any observation of surface leakage may be considered as noncompliance with the Greater Boundary No. 7-27-8-17 Permit. The Greater Boundary No. 7-27-8-17 shall suspend operations immediately, and will stay suspended until the noncompliance has been resolved, and renewed injection has been approved in writing by the Director.

Greater Boundary No. 8-27-8-17: SE NE Sec. 27-T8S-R17E

Top Garden Gulch Member: 4053 feet

Garden Gulch Confining Zone:

Top 80% EPA Cement Bond:

Top Douglas Creek Member:

4000 feet to 4053 feet
4150 feet to 4402 feet
5100 feet

Top Douglas Creek Member: 5100 feet
Total Depth (Driller): 6300 feet in Douglas Creek Member

The 53-foot confining shale overlying the top of the Garden Gulch Member is not protected by 80% bond index cement bond. This lack of confining zone annulus cement may not prevent upward movement of injected fluids through vertical channels adjacent to the well bore. The permittee will be required to inspect the surface of this location for fluid leaks on a weekly basis. Any observation of surface leakage may be considered as noncompliance with the Greater Boundary No. 7-27-8-17 Permit. The Greater Boundary No. 7-27-8-17 shall suspend operations immediately, and will stay suspended until the noncompliance has been resolved, and renewed injection has been approved in writing by the Director.

Tar Sands Federal No .9-27-8-17:

NE SE Sec. 27-T8S-R17E

Top Garden Gulch Member:

4052 feet

Garden Gulch Confining Zone:

3980 feet to 4052 feet

Top 80% EPA Cement Bond:

3900 feet to 4296 feet 5042 feet

Top Douglas Creek Member: Top Basal Carbonate Member:

6326 feet

Total Depth (Driller):

6330 feet in Basal Carbonate Member

.The 72-foot confining shale overlying the top of the Garden Gulch Member is protected by 80% bond index cement bond. This confining zone annulus cement may prevent upward movement of injected fluids through vertical channels adjacent to the well bore. Any observation of surface leakage may be considered as noncompliance with the Greater Boundary No. 7-27-8-17 Permit. The Greater Boundary No. 7-27-8-17 shall suspend operations immediately, and will stay suspended until the noncompliance has been resolved, and renewed injection has been approved in writing by the Director.

Douglas Creek Member Oil Well:

Greater Boundary No. 10-27-8-17:

NW SE Sec. 27-T8S-R17E

Top Garden Gulch Member:

4056 feet

Garden Gulch Confining Zone:

4018 feet to 4056 feet

Top 80% EPA Cement Bond:

3980 feet to 4034 feet

Top Douglas Creek Member:

5102 feet

Top Basal Carbonate Member:

6322 feet

Total Depth (Driller):

6397 feet in Basal Carbonate Member

The 38-foot confining shale overlying the top of the Garden Gulch Member is protected by 80% bond index cement bond. This confining zone annulus cement may prevent upward movement of injected fluids through vertical channels adjacent to the well bore. Any observation of surface leakage may be considered as noncompliance with the Greater Boundary No. 7-27-8-17 Permit. The Greater Boundary No. 7-27-8-17 shall suspend operations immediately, and will stay suspended until the noncompliance has been resolved, and renewed injection has been approved in writing by the Director.

PART II. C.

Prior to Commencing Injection (Additional Wells)

(Condition 2)

Greater Boundary No. 7-27-8-17: This document is being issued without authority to inject. Prior to beginning injection, the operator is required to submit the following information for EPA review and written approval:

- A successful mechanical integrity test (MIT) demonstrating Part I Internal MI (Enclosed);
- a pore pressure calculation of the proposed injection zone; and an
- EPA Form No. 7520-12 (Well Rework Record, enclosed).

Confirmation that the injectate will be confined to the authorized injection zone: It has been determined that the annulus cement in this well may not provide an effective barrier to significant upward movement of fluids through vertical channels adjacent to the wellbore (Part II MI), pursuant to 40 CFR §146.8 (a) (2). Within a 180-day Limited Authorization to Inject Period, the permittee/operator shall demonstrate Part II (External) Mechanical Integrity

Injection Interval

(Condition 3)

Injection shall be limited to the gross Garden Gulch, Douglas Creek and Basal Carbonate Members of the Green River Formation from 4092 feet (KB) to the top of the Wasatch Formation, estimated to be 6441 feet (KB).

Injection Pressure Limitation

(Condition 4)

Pursuant to Final Area Permit UT20702-00000, Part II. Section C. 4. (b). the maximum allowable injection pressure (MAIP) shall not exceed 1800 psig. Until such time that a <u>Step-Rate Test</u> (SRT) has been performed, reviewed and approved by the EPA, the initial MAIP for the Greater Boundary No. 7-27-8-17 shall not exceed **1380 psig.**

A fracture gradient (FG) of **0.780** psi/ft is the minimum value FG calculated from five (5) sand/frac treatments. A review of FG values within Section 27, and proximate to Section 27, indicate that a FG of 0.780 is higher than most sand/frac or SRT-derived FG. A **FG of 0.733**, which value is similar to a SRT derived FG in Section 27, will be used for the calculation of the **initial** MAIP for the Greater Boundary No.7-27-8-17.

Until such time that a step-rate injectivity test (SRT) has been performed, reviewed, and approved by the EPA, the initial maximum allowable injection pressure (MAIP) for the Greater Boundary No. 7-27-8-17 shall not exceed 1380 psig.

> MAIP = [FG - (0.433)(SG) D]0.733 psi/ft FG 1.005 SG 4627 feet. Top perforation.

D

.[0.733 - (0.433)(1.005)] 4627 MAIP =

1378 psig, but rounded up to 1380 psig. MAIP =

Part II. C. 4. (b) Final Area Permit (UT20702-00000), has a provision whereby the operator may request an increase, or decrease, in the maximum surface injection pressure.

PART II. F.

Demonstration of Financial Responsibility:

(Condition 1)

The current plugging and abandonment cost for the Greater Boundary No.7-27-8-17 is estimated to be \$33,025.00. The applicant has chosen to demonstrate financial responsibility via a Financial Statement that has been reviewed and approved by the EPA.

PART III. E.

Reporting of Noncompliance:

(Condition 10)

- Anticipated Noncompliance. The operator shall give advance notice to the Director (a) of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- Compliance Schedules. Reports of compliance or noncompliance with, or any progress on, interim and final requirements contained in any compliance schedule of (b) this Permit shall be submitted no later than thirty (30) days following each schedule date.
- Written Notice of any noncompliance which may endanger health or the environment (c) shall be reported to the Director within five (5) days of the time the operator becomes aware of the noncompliance. The written notice shall contain a description of the noncompliance and its cause; the period of noncompliance including dates and times; if the noncompliance has not been corrected the anticipated time it is expected

to continue; and steps taken or planned to prevent or reduce recurrence of the noncompliance.

Twenty-Four Hour Noncompliance Reporting:

(Condition 11)

The operator shall report to the Director any noncompliance which may endanger health or environment. Information shall be provided, either orally or by leaving a message, within twenty-four (24) hours from the time the operator becomes aware of the circumstances by telephoning 1-800-227-8917 and asking for the EPA Region VIII UIC Program Compliance and Enforcement Director, or by contacting the Region VIII Emergency Operations Center at 303-293-1788 if calling from outside EPA Region VIII. The following information shall be included in the verbal report:

- (a) Any monitoring or other information which indicates that any contaminant may cause an endangerment to a USDW.
- (b) Any noncompliance with a Permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

Oil Spill and Chemical Release Reporting:

(Condition 12)

The operator shall comply with all other reporting requirements related to oil spills and chemical releases or other potential impacts to human health or the environment by contacting the National Response Center (NRC) 1-800-424-8802 or 202-267-2675, or through the NRC website at http://www.nrc.uscg.mil/index.htm.

Other Noncompliance:

(Condition 13)

The operator shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted. The reports shall contain the information listed in Part III. 10. c. ii. of this Permit.

Other Information: Where the operator becomes aware that he failed to submit any relevant facts in the Permit application, or submitted incorrect information in a Permit application, or in any report to the Director, the operator shall submit such correct facts or information within two (2) weeks of the time such information became known to him.

APPENDIX C

<u>PLUGGING AND ABANDONMENT</u>: The Plugging and Abandonment (P&A) Plan (Application Attachment Q-2) submitted by the applicant has been reviewed and approved by the EPA. The P&A Plan is consistent with EPA requirements to protect all USDWs. The permittee will place 9.2 ppg plugging gel or bentonite mud between all cement plugs.

- PLUG NO. 1: Set a cast iron bridge plug (CIBP) at 4530 feet. Place 100 feet of Class "G" cement on top of CIBP.
- PLUG NO. 2: Set a cement plug inside of the 5-1/2 inch casing from 2000 feet to 2200 feet over a water zone.

Perforate 4 JSPF at 358 feet.

PLUG NO. 3: Pump Class "G" cement from the surface down the 5-1/2 inch casing and up the 5-1/2 inch X 8-5/8 inch annulus to the surface..

This authorization <u>for well conversion</u> of the Greater Boundary No. 7-27-8-17 to an injection well becomes effective upon signature.

Date: APR 1 3 2005

Cawl L. Cambell for Stephen S. Tuber

Assistant Regional Administrator

Office of Partnerships and Regulatory Assistance

DATE SIGNED

| _ | | | <u> </u> | UNITED STATE | | MENTAL B | | | No. 2040-0042. E | xpires 6-30-98 | | |
|----------|--|--|------------------------|-----------------|--|-----------------|-------------------|-----------------------|--|----------------|--|--|
| | · · | | | | WASHING | TON, DC 2 | 0460 | | | | | |
| 7 | FEP | Α | | WELL | REW | ORK F | RECORD |) | | <u>,</u> | | |
| N.A | ME AND AD | ORESS OF PERMI | TTEE | | | NAM | SAND ADDRES | SS OF CONTRACTOR | | | | |
| | , | | • | | | | | | • | | | |
| | • | | | | | | | | PERMIT NUMBER | | | |
| | | WELL AND OUTLI | NE LINET ON | STATE | COUNTY | | | | PERMIT NUMBER | • | | |
| | | TON PLAT 640 | | SUPEACE | SURFACE LOCATION DESCRIPTION | | | | | | | |
| | | N | | 1/ | 4 of | 1/4 of | 1/4 of <u>-</u> _ | 1/4 of Section | Township | Renge | | |
| | | | | LOCATE WE | LL IN TWO | DIRECTIO | NS FROM NEA | REST LINES OF QUA | RTER SECTION AND DRIL | LING UNIT | | |
| | ┝╾┼╾┼ | ╼┼╼┼╍┼╸ | | Surface | Surface Locationtr. from (N/S)Line of quarter section | | | | | | | |
| | andt. from (E/W) Line of quarter section | | | | | | | | | | | |
| | | | _ | | WELL ACTIVITY Total Depth Before Rework TYPE OF PERMIT | | | | | | | |
| | | | 1 - | | ☐ Brine Disposel ☐ Individual | | | | | | | |
| . W | | | | | ced Recover arbon Stor | | Total Depth | After Rework | Number of Wells | | | |
| | ╟┷┼┷┼ | ╼┼┷┼╾┼╍ | | | ·lama | | Date Rewo | rk Commenced | Well Number | • | | |
| | | ╼╁╼┼╾┼ | - - - | Lease | 131776 | | | rk Completed | _ | • | | |
| | | | | | | · | •••• | • | | | | |
| | |] - · · · | | | | | <u> </u> | | | | | |
| | | | · | | | | | ner | | <u>-</u> _ | | |
| | | | | WELL CASIA | IG RECO | Perforation | | JAK | Acid or Fracture | | | |
| _ | | Casing Cement Pernorations Depth Secks Type From Te | | | | | | | Treatment Record | | | |
| <u> </u> | Size . | | | | | | | | | | | |
| | | | | | | - - | | | <u> </u> | | | |
| | | | | <u> </u> | | | | | | | | |
| | | | | | <u> </u> | | | | | | | |
| • | | | | · | | | | and the second second | CONTROL OF A STATE OF THE PROPERTY AND SERVICE AND STREET AND SERVICE AND SERV | | | |
| | | | WELL CASING | RECORD - A | FTER REV | VORK (In | dicete Additio | ons end Changes C | Acid or Fracture | | | |
| | Cat | | | Type | From | Perforation | To | | Treatment Record | | | |
| | Size | Depth | Sacks | Type | 71011 | | | | | | | |
| | | | | | | | | <u> </u> | | | | |
| | | | | | | | <u> </u> | | | | | |
| | | | | <u> </u> | | | | · | | | | |
| | | | | · · | | | | | | | | |
| | | ESCRIBE REWO | RK OPERATIONS | IN DETAIL | | | | VIRE LINE LOGS, L | | | | |
| | and the second second | USE ADDITIONA | L SHEETS IF NE | CESSARY | 12.8.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3. | | Log Type | | Logged Intervi | 116 | | |
| | 7 | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | · | | | | |
| | | | | | | | | | • | Ì | | |
| | | • | | | CERTIF | ICATIC | N | | | İ | | |
| | 10 | errify under t | he penalty of | iaw that i hav | e persoi | nally ext | amined and | d am familiar w | vith the information of those individuals | ' i | | |
| | | | | and all atter | hmentt | and the | IL Daseu v | ii iliy iliquiry v | , (1)000 minimum | | | |
| | _ | | | sktaining the | informa | tion I D | aliava indi | (()# IIV IIIauv | ili is tino, necesare, | , , | | |
| | a ri | d complete. I | am aware tha | t there are sig | nificant | penani | es for Subii | nitting false info | ormation, including | ' | | |
| | the | possibility o | f fine and imp | orisonment. (/ | Ref. 40 C | :FR 144 | . <i>32)</i> . | | | | | |
| | • | | | | | | | • | | | | |

SIGNATURE

NAME AND OFFICIAL TITLE (Please type or print)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500 DENVER, COLORADO 80202-2466

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 39

Pressure testing injection wells for Part I (internal)

Mechanical Integrity

FROM: Tom Pike, Chief

UIC Direct Implementation Section

TO:

All Section Staff

Montana Operations Office

Introduction

The Underground Injection Control (UIC) regulations require that an injection well have mechanical integrity at all times (40 CFR 144.28 (f)(2) and 40 CFR 144.51 (q)(1)). A well has mechanical integrity (40 CFR 146.8) if:

- (1) There is no significant leak in the tubing, casing or packer; and
- (2) There is no significant fluid movement into an underground source of drinking water (USDW) through vertical channels adjacent to the injection wellbore.

Definition: Mechanical Integrity Pressure Test for Part I. A pressure test used to determine the integrity of all the downhole components of an injection well, usually tubing, casing and packer. It is also used to test tubing cemented in the hole by using a tubing plug or retrievable packer. Pressure tests must be run at least once every five years. If for any reason the tubing/packer is pulled, the injection well is required to pass another mechanical integrity test of the tubing casing and packer prior to recommencing injection regardless of when the last test was Tests run by operators in the absence of an EPA inspector must be conducted according to these procedures and recorded on either the attached form or an equivalent form containing the necessary information. A pressure recording chart documenting the actual annulus test pressures must be attached to the form.

This guidance addresses making a determination of Part I of Mechanical Integrity (no leaks in the tubing, casing or packer). The Region's policy is: 1) to determine if there are significant leaks in the tubing, casing or packer; 2) to assure that the casing can withstand pressure similar to that which

would be applied if the tubing or packer fails; 3) to make the Region's test procedure consistent with the procedures utilized by other Region VIII Primacy programs; and 4) to provide a procedure which can be easily administered and is applicable to all class I and II wells. Although there are several methods allowed for determining mechanical integrity, the principal method involves running a pressure test of the tubing/casing annulus. Region VIII's procedure for running a pressure test is intended to aid UIC field inspectors who witness pressure tests for the purpose of demonstrating that a well has Part I of Mechanical Integrity. The guidance is also intended as a means of informing operators of the procedures required for conducting the test in the absence of an EPA inspector.

Pressure Test Description

Test Frequency

The mechanical integrity of an injection well must be maintained at all times. Mechanical integrity pressure tests are required at least every five (5) years. If for any reason the tubing/packer is pulled, however, the injection well is required to pass another mechanical integrity test prior to recommencing injection regardless of when the last test was conducted. The Regional UIC program must be notified of the workover and the proposed date of the pressure test. The well's test cycle would then start from the date of the new test if the well passes the test and documentation is adequate. Tests may be required on a more frequent basis depending on the nature of the injectate and the construction of the well (see Section guidance on MITs for wells with cemented tubing and regulations for Class I wells).

Region VIII's criteria for well testing frequency is as follows:

- Class I hazardous waste injection wells; initially [40 CFR 146.68(d)(1)] and annually thereafter;
- Class I non-hazardous waste injection wells; initially and every two (2) years thereafter, except for old permits (such as the disposal wells at carbon dioxide extraction plants which require a test at least every five years);
- Class II wells with tubing, casing and packer; initially and at least every five (5) years thereafter;
- 4. Class II wells with tubing cemented in the hole; initially and every one (1) or two (2) years thereafter

- depending on well specific conditions (See Region VIII UIC Section Guidance #36);
- 5. Class II wells which have been temporarily abandoned (TAd) must be pressure tested after being shut-in for two years; and
- Class III uranium extraction wells; initially.

Test Pressure

To assure that the test pressure will detect significant leaks and that the casing is subjected to pressure similar to that which would be applied if the tubing or packer fails, the tubing/casing annulus should be tested at a pressure equal to the maximum allowed injection pressure or 1000 psig whichever is less. The annular test pressure must, however, have a difference of at least 200 psig either greater or less than the injection tubing pressure. Wells which inject at pressures of less than 300 psig must test at a minimum pressure of 300 psig, and the pressure difference between the annulus and the injection tubing must be at least 200 psi.

Test Criteria

- 1. The duration of the pressure test is 30 minutes.
- 2. Both the <u>annulus and tubing pressures should be</u> monitored and recorded every five (5) minutes.
- 3. If there is a pressure change of 10 percent or more from the initial test pressure during the 30 minute duration, the well has failed to demonstrate mechanical integrity and should be shut-in until it is repaired or plugged.
- 4. A pressure change of 10 percent or more is considered significant. If there is no significant pressure change in 30 minutes from the time that the pressure source is disconnected from the annulus, the test may be completed as passed.

Recordkeeping and Reporting

The test results must be recorded on the attached form. The annulus pressure should be recorded at five (5) minute intervals. Tests run by operators in the absence of an EPA inspector must be conducted according to these procedures and recorded on the attached form or an equivalent form and a pressure recording



chart documenting the actual annulus test pressures must be attached to the submittal. The tubing pressure at the beginning and end of each test must be recorded. The volume of the annulus fluid bled back at the surface after the test should be measured and recorded on the form. This can be done by bleeding the annulus pressure off and discharging the associated fluid into a five gallon container. The volume information can be used to verify the approximate location of the packer.

Procedures for Pressure Test

- Scheduling the test should be done at least two (2) weeks in advance.
- 2. Information on the well completion (location of the packer, location of perforations, previous cement work on the casing, size of casing and tubing, etc.) and the results of the previous MIT test should be reviewed by the field inspector in advance of the test. Regional UIC Guidance #35 should also be reviewed. Information relating to the previous MIT and any well workovers should be reviewed and taken into the field for verification purposes.
- 3. All Class I wells and Class II SWD wells should be shut-in prior to the test. A 12 to 24-hour shut-in is preferable to assure that the temperature of the fluid in the wellbore is stable.
- 4. Class II enhanced recovery wells may be operating during the test, but it is recommended that the well be shut-in if possible.
- 5. The operator should fill the casing/tubing annulus with inhibited fluid at least 24 hours in advance, if possible. Filling the annulus should be undertaken through one valve with the second valve open to allow air to escape. After the operator has filled the annulus, a check should be made to assure that the annulus will remain full. If the annulus can not maintain a full column of fluid, the operator should notify the Director and begin a rework. The operator should measure and report the volume of fluid added to the annulus. If not already the case, the casing/tubing valves should be closed, at least, 24 hours prior to the pressure test.

Following steps are at the well:

6. Read tubing pressure and record on the form. If the

well is shut-in, the reported information on the actual maximum operating pressure should be used to determine test pressures.

- 7. Read pressure on the casing/tubing annulus and record value on the form. If there is pressure on the annulus, it should be bled off prior to the test. If the pressure will not bleed-off, the guidance on well failures (Region VIII UIC Section Guidance #35) should be followed.
- 8. Ask the operator for the date of the last workover and the volume of fluid added to the annulus prior to this test and record information on the form.
- Hook-up well to pressure source and apply pressure until test value is reached.
- 10. Immediately disconnect pressure source and start test time (If there has been a significant drop in pressure during the process of disconnection, the test may have to be restarted). The pressure gages used to monitor injection tubing pressure and annulus pressure should have a pressure range which will allow the test pressure to be near the mid-range of the gage. Additionally, the gage must be of sufficient accuracy and scale to allow an accurate reading of a 10 percent change to be read. For instance, a test pressure of 600 psi should be monitored with a 0 to 1000 psi gage. The scale should be incremented in 20 psi increments.
- Record tubing and annulus pressure values every five
 minutes.
- 12. At the end of the test, record the final tubing pressure.
- 13. If the test fails, check the valves, bull plugs and casing head close up for possible leaks. The well should be retested.
- 14. If the second test indicates a well failure, the Region should be informed of the failure within 24 hours by the operator, and the well should be shut-in within 48 hours per Headquarters guidance #76. A follow-up letter should be prepared by the operator which outlines the cause of the MIT failure and proposes a potential course of action. This report should be submitted to EPA within five days.

- 15. Bleed off well into a bucket, if possible, to obtain a volume estimate. This should be compared to the calculated value obtained using the casing/tubing annulus volume and fluid compressibility values.
- 16. Return to office and prepare follow-up.

Alternative Test Option

While it is expected that the test procedure outlined above will be applicable to most wells, the potential does exist that unique circumstances may exist for a given well that precludes or makes unsafe the application of this test procedure. In the event that these exceptional or extraordinary conditions are encountered, the operator has the option to propose an alternative test or monitoring procedures. The request must be submitted by the operator in writing and must be approved in writing by the UIC-Implementation Section Chief or equivalent level of management.

Attachment

Mechanical Integrity Test Casing or Annulus Pressure Mechanical Integrity Test

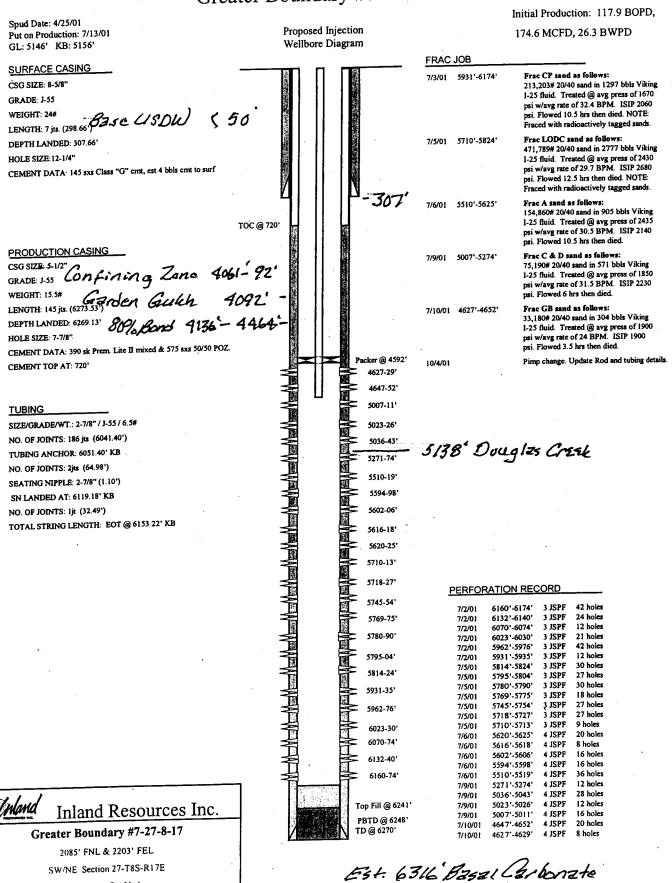
U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW
999 18th Street, Suite 500 Denver, CO 80202-2466

| EPA Witness: | | | ·] | Date: | <u> </u> | 1 | • | |
|-------------------------------|--|-------------|----------|-----------------------------------|----------|--------------------------------|--------------------|---------|
| Test conducted by: | | | | | | | _ | |
| Others present: | | | | | | | - | |
| | | | | TO CUID | Stot | me. AC | TA | UC |
| Well Name: | | | Type: | ER SWD | Siai | lus. A | , 111 | |
| | | _ | - /377 | C | | 9 | State: | |
| Field: Sec: | TN/S | 3 R | _E/W | County: | | | · | - |
| Operator: | | | | | | | PSI | G |
| Last MIT:/ | / Maximu | m Allowa | ble Pres | sure. | | | | |
| | · | | NT- | | | | | |
| Is this a regularly schedu | iled test? [] Yes | s [] | No | | | | | |
| | r permit? [] Yes | | No | | | | • | |
| | rework? [] Yes | | l·No | | | | · | |
| | | | | If Yes, rate: | | | • | bpd |
| Well injecting dur | ring test? [] Yes | s į. |] No | 11 165, 146. | | | | • |
| Pre-test casing/tubing annulu | a nressilte | | | psig | | | | |
| Pre-test casing/tubing annulu | s pressure. | | | | | | | |
| DAMA TADIT | Test #1 | | | Test #2 | | | Test | #3 |
| MIT DATA TABLE | | | | | | e service e | • • • | |
| TUBING | PRESSUR | <u> </u> | | | <u> </u> | | | psig |
| Initial Pressure | | psig | | | psig | | | • |
| End of test pressure | | psig | هد در | | psig | التنصيب. | | nsig |
| | ANNULUS | 5 | PRES | SURE | | | · | |
| CASING / TUBING | 71111111 | | | | psig | | | psig |
| 0 minutes | | psig | | | | | | psig |
| 5 minutes | • | psig | | | psig | | | |
| 10 minutes | | psig | | · denis a parallementa representa | psig | annicht der die stes er eneste | المراجعة المستهداء | psig |
| 15 minutes | | psig | | | psig | | | psig |
| | | psig | | | psig | | | psig |
| 20 minutes | <u> </u> | | | | psig | | | psig |
| 25 minutes | | psig | | | | | | psig |
| 30 minutes | | psig | | | psig | | | |
| minutes | | psig | | | psig | | | psig |
| | | psig | | | psig | | | psig |
| minutes | | | , , , | Pose [] | Fail | [] | Pass | []Fail |
| RESULT | Pass [|]Fail | | Pass [] | _ 0.11 | <u></u> | | |

[] No

Does the annulus pressure build back up after the test? [] Yes

Greater Boundary #7-27-8-17



Est. 6441 Wassteh

SW/NE Section 27-T8S-R17E

Duchesne Co, Utah API #43-013-32232; Lease #UTU-76241

MC 7-6/04

FORM 3160-5 (September 2001)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

| FORM APPROVED |
|-------------------------|
| OMB No. 1004-0135 |
| Expires January 31,2004 |

Lease Serial No.

| T | ITI | 176241 |
|---|-----|--------|

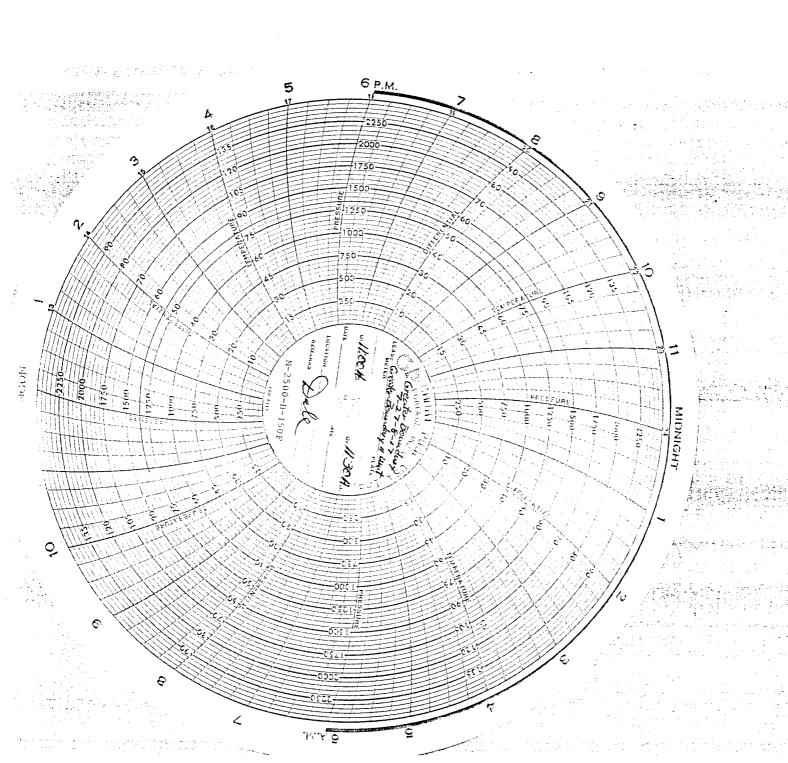
| If Indian, Allottee or Tribe Nat | ne. |
|--|-----|
|--|-----|

| abandoned wo | ell. Ose i ollii 5100-5 (Ari | o, for such proposa | 13. | L | | | | |
|--|---|--|---------------------|--------------------------------|--------------------------|--|--|--|
| SUBMIT IN T | 7. If Unit or CA/Agreement, Name and/or No. GREATER BOUNDARY II | | | | | | | |
| Oil Well Gas Well | 8. Well Name and No. | | | | | | | |
| 2. Name of Operator | 1 | UNDARY 7-27-8-17 | | | | | | |
| Newfield Production Company 3a. Address Route 3 Box 3630 | 9. API Well No. | | | | | | | |
| Myton, UT 84052 | | 3b. Phone No. (include a. 435.646.3721 | re coaej | 4301332232 10 Field and Poc | ol, or Exploratory Area | | | |
| 4. Location of Well (Footage, Sec | Monument Butte | | | | | | | |
| 2085 FNL 2203 FEL | 11. County or Par | unty or Parish, State | | | | | | |
| SW/NE Section 27 T8S R1 | 7E | | | Duchesne,UT | | | | |
| 12. CHECK | APPROPRIATE BOX(ES | S) TO INIDICATE N | ATURE OF NO | OTICE, OR OT | TICE, OR OTHER DATA | | | |
| TYPE OF SUBMISSION | | TY | PE OF ACTION | | | | | |
| Division | Acidize | Deepen | Production | n(Start/Resume) | ☐ Water Shut-Off | | | |
| Notice of Intent | ☐ Alter Casing | Fracture Treat | Reclamati | on | Well Integrity | | | |
| X Subsequent Report | Casing Repair | New Construction | Recomple | te | X Other | | | |
| Final Abandonment Notice | Change Plans Convert to Injector | ☐ Plug & Abandon☐ Plug Back | Temporari Water Dis | ily Abandon posal | Injection Conversion/MIT | | | |
| The subject well was converted from a producing to a injection well on 8-3-05. The rods and tubing anchor were removed and a packer was inserted in bottom hole assembly at 4562' On 8-24-05 Dan Jackson with the EPA was contacted concerning the initial MIT on the above listed well. Permission was given at that time to perform the test on 8-25-05. On 8-25-05 the csg was pressured up to 1350 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The top pressure was 225 psig during the test. There was not an EPA representative available to witness the test. EPA # UT20702-06485 API #43-013-32232. Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY | | | | | | | | |
| I hereby certify that the foregoing is Name (Printed/ Typed) | s true and correct | Title Office Manager | | | | | | |
| Kathy Chapman Signature | | | | | | | | |
| Lath | | | | | | | | |
| 1 | THIS SPACE FO | R FEDERAL OR S | TATE OFFICI | USE | | | | |
| Approved by Conditions of approval, if any, are attach certify that the applicant holds legal or ec which would entitle the applicant to cond Title 18 U.S.C. Section 1001 and Title 43 | quitable title to those rights in the subjeduct operations thereon. | ct lease Offic | * | Dat | | | | |
| States any false, fictitious and fraudulent | | | | | CENT D | | | |
| (Instructions on reverse) | | | |), / | . 🔾 🔐 | | | |

SEP 0 1 2005

| | Fon | m Approved. C | MB N | 2000-0 | 042. Ap | proval ex | pires 9- | 30-8 | 6 | | | | | | | | |
|------------------------|---------------------------|---|----------------------|---|--|--------------------------|---|------------|------------|-------------|-----------------------|------------|---------|---------------|-------------------------------|--------------|---------------|
| 1 | | | | INIT | TATES | ENVIRO | NMEN | TAL I | PR | | ON AGENCY | | | | | _ | |
| &EP | A | | | - | | WASHIN | | | | 160 CORE | ` | - | | | | | |
| NAME AND ADDR | ESS OF PERM | VITTEE | | | *** | <u> </u> | VVOIN | - | _ | | DORESS OF CON | TRACTOR | | | | | |
| Newfield Prod | | | | | | | | | | e as Per | | | | | | * | |
| 410 17th Stree | | | | | | | | | | | | | | | | | |
| Denver, Colora | ado 80202 | -4402 | | TSTATE | <u> </u> | Loois | NTV | | | | | | | | | | |
| karingan, <u>sa</u> ka | koki mila. | \$0,000 mi | Elemente Elemente | SIAIE | | 1000 | NTY | | | - Du | chesne | | PE | RMIT N | UMBER | a tare | *** |
| | ELL AND OU ON PLAT — 6 | TLINE UNIT ON 140 ACRES | | 200000000000000000000000000000000000000 | ACE LOCA | TION DES | CRIPTIO | Ñ | | Du | oneone. | | | | | * U.I | U-76241 |
| | N | | | | | 4 OF | | | | | SECTION | 27 | TOV | VNSHIP | - 8 | RANG | E 17 |
| F I .T | | | 1 | | | N TWO DI | RECTION | SFR | MC | NEAREST | LINES OF QUA | RTER SECT | ION A | ND DRIL | LING U | TIV | |
| | | 1-1-1- | 4 | | urface ocation | 2085 | | | - | n (N/S) | N | | | | | | |
| | | | | ar | | 259.7547.7500 | ft. from | | | | Line of quarter | | arter s | section | | | |
| | | | | | _ | | | , | - | - | Enc or quarter | 3000011 | | | | | |
| | 9 | | | | | L ACTIVIT | ΓΥ | | Ţ | otal Depth | Before Rework | | T | | TYF | PE OF PE | RMIT |
| w | | + | - € | | Brine Dis | • | | | Ĺ | | 6248' | | ┛┛ | Individ | ual | | |
| | | | | | | d Recovery bon Storac | | | T | otal Depth | After Rework 6248' | | | | | 2012 2014 AV | 1000 |
| | | | | | riyulucai | DON SIDIAL | je | | - | ate Rewor | rk Commenced | | - Nu | mber of \ | vvelis . | : 1 | <u> </u> |
| | | | 7 | Leas | e Name | | | | ľ | CIC I CHOI | 8/1/2005 | | We | il Numbe | er | | |
| | | | 7 | | | | | | Į | ate Rewor | k Completed | | 1 " | | :://www.compress.compress.com | -27-8- | 17 |
| | Š | | | <u> </u> | | Grea | ter Bou | nda | y | | 8/3/2005 | * | | | 2012 3400000000 | | 2402 |
| | | | | WE | II CA | SING | PECO | PD | _ | BEEOL | RE REWOR | OV. | | | | | |
| Casing | <u> </u> | Ce | ment | | | Perfor | | ND | | BEFOR | VE KEWOR | <u> </u> | Aoid 4 | or Fractu | | | |
| Size | Depth | Sacks | | уре | Fr | om | 1 | Γο | | i | | | | nent Rec | _ | | • |
| 8-5/8" | 308 | 145 | Cla | ass G | * March 12000000000000000000000000000000000000 | 31 | 61 | 74 | | Perf C | P sds and fra | ced | | | 7.6 | | |
| 5:1/2 | 6269 | 390 | SC 7 MONO. 574000 A | Lite II | | | 58 | | | Perf L | ODC sds and | I fraced | | | - 57 | | |
| | | 575 | | 0/50 | 200000000000000000000000000000000000000 | 510 007 | · · · · · · · · · · · · · · · · · · · | 525 174 | | Peri A | sds and frac | ed · | | 200 | | | |
| | | | | | 200.000.000.000.000 | 27 | 200000000000000000000000000000000000000 | 552 | | | B sds and fra | | | • | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | ING R | ECORI |) AF | TER F | SEN | <u> </u> | RK (Indi | icate Additions | and Cha | nges | Only) | | | |
| Casing Size | | | ment | | <u> </u> | Perfora | | | | | | | | r Fractu | - | | |
| Size | Depth | Sacks | | уре | | om | T T | o | | | | | Freatm | ent Reco | ord | | |
| | | | | | | • | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | <u> </u> | | | | | | | | | | |
| | DESCRI | BE REWORK OP | FRATIC | אכ וא סב | TAH | | <u> </u> | _ | | | | DC LINE L | 200.1 | 10T E 1 0 | | | |
| | | DDITIONAL SHE | | | | | | \vdash | | | Log Types | RE LINE LO | JGS, L | IST EAC | | ged Interv | uale |
| | | | | | | T | ĺ | 1 | П | | Lug typus | | _ | $\overline{}$ | T Lug | igeu iliter | Tals Tals |
| | | | | | See | attache | d "Dail | y W | Οſ | kover R | eport" | | | | | | _ |
| | | | | | | | | | Ц | | | | L., | | | | |
| | | | | <u> </u> | | | | | Ц | | <u>L</u> | 1 | | | | | |
| | | | | | | С | ERTIF | ICA | T | ON | | | | | | | |
| certify under the | penalty of | law that I hav | e per | sonally e | xamined | and am | familia | r with | th | e inform | ation submitte | ed | | | | | |
| this document | and all att | achments and | f that, | based o | on my in | quiry of | those ir | ndivid | lua | ls immed | diately respon | sible | | | | | |
| or obtaining the i | nformation, | I believe that | the in | formatio | n is true, | accura | te, and | com | ole | te. I ama | aware that the | ere | | | | | |
| e significant per | naities for s | upmitting false | ntom | nation, il | ncluding | the poss | sibility o | f fine | ar | d impris | onment. (Ref. | 40 CFR | 144.3 | 2) | | | |
| IAME AND OFFICIA | L TITLE (Plea | se type or print) | | | SIGNATU | JRE | | - | _ | 1 | | | DAT | E SIGNI | ED. | | |
| athy Chapman | | | | | | 1 | 7-1 | | 1 | | | | | | | ıst 26, î | 2005 |
| ffice Manager | | | | | " | 10 | rele | Ľ | K | Mas | 2- | | 1 | | | | |
| PA Form 7520-12 (2 | -84) | | | | | | // | | | | | | | | | | |

RECEIVED SEP 0 1 2005



Mechanical Integrity Test Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency Underground Injection Control Program 999 18th Street, Suite 500 Denver, CO 80202-2466

| EPA Witness: | | | Date: _ | | / | | | |
|--|-------------|---------------------------------------|-------------------|--------------------|----------------|---------|--|--|
| Test conducted by: | ile Giles | <u> </u> | | | | | | |
| Others present: | | · · · · · · · · · · · · · · · · · · · | | | | | | |
| W.U.N | 1 | 7017 | Trme: ED CU | /D State | o AC TA IIC | | | |
| Well Name: Greater-Bo | andary 1-2 | 7-8-17 | Type: EK Sw | D Statu | is: AC IA UC | | | |
| Field: Greater Round Location: Sec: | STT CN | ! ! /� P / 7 | €/W Count | . Duches | LIP State 107 | | | |
| Operator: 1 2 Sec. | Drade to | | VV County | · vacue | butto. cc. | | | |
| Operator: New Field Production Co. Last MIT: / Maximum Allowable Pressure: PSIG | | | | | | | | |
| | | | | | | | | |
| Is this a regularly scheduled | | • |] No | | • | | | |
| Initial test for permit? | _ | |] No | | | | | |
| Test after well rework? | | • |] No I No If V | oc rote: | b _j | nd | | |
| Well injecting during test? | l J | 162 | J 140 II 14 | s, rate | U | , a | | |
| Pre-test casing/tubing annulu | s pressure: | ϵ | > | psig | | | | |
| | | | | | | | | |
| MIT DATA TABLE | Test #1 | | Test #2 | | Test #3 | | | |
| TUBING | PRESSURE | | | | | | | |
| Initial Pressure | 225 | psig | | psig | | psig | | |
| End of test pressure | 225 | psig | | psig | | psig | | |
| CASING / TUBING | ANNULUS | | PRESSURE | | | | | |
| 0 minutes | 1350 | psig | | psig | | psig | | |
| 5 minutes | 1350 | psig | | psig | | psig | | |
| 10 minutes | 1350 | psig | | psig | | psig | | |
| 15 minutes | 1350 | psig | | psig | | psig | | |
| 20 minutes | 1350 | psig | | psig | | psig | | |
| 25 minutes | 1350 | psig | | psig | | psig | | |
| 30 minutes | 1350 | psig | | psig | | psig | | |
| minutes | | psig | | psig | | psig | | |
| minutes | | psig | | psig | | psig | | |
| RESULT | [.] Pass | []Fail | [] Pass | []Fail | [] Pass | []Fail | | |

Does the annulus pressure build back up after the test? [] Yes [] No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

| Signature of Witness: | • | |
|-----------------------|---|--|

FORM 3160-5 (September 2001)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0135 Expires January 31,2004

| | | | | 1 | ١٥. | |
|--|---|--|--|---|--|--|
| SUNDRY Do not use th | SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an | | | UTU76241 | | |
| abandoned we | ell. Use Form 3160-3 (A | PD) for such proposal | 5. | 6. If Indian, Allot | ttee or Tribe Name. | |
| SUBMIT IN TE | RIPLICATE - Other In. | structions on reverse s | de | 7. If Unit or CA/ | Agreement, Name and/or No. | |
| Tuna of Wall | | | | | UNDARY II | |
| ype of Well Oil Well 🔲 Gas Well 🔯 | Other Injection well | | | | | |
| Jame of Operator | Other Injection well | | | 8. Well Name and GREATER BO | d No. UNDARY 7-27-8-17 | |
| ewfield Production Company | | | | 9. API Well No. | | |
| Address Route 3 Box 3630 | | 3b. Phone No. (include ar | 4301332232 | - | | |
| Myton, UT 84052 ocation of Well (Footage, Sec. | T R M or Survey Descript | 435.646.3721 | | 10. Field and Poo Monument But | ol, or Exploratory Area | |
| 2085 FNL 2203 FEL | , 1., 10, 141, 01 041 109 10001.p. | | | 11. County or Par | | |
| SW/NE Section 27 T8S R1 | 7E | | | Duchesne,UT | , | |
| 12. CHECK | APPROPRIATE BOX(| ES) TO INIDICATE N | ATURE OF NO | | THER DATA | |
| YPE OF SUBMISSION | | · · · · · · · · · · · · · · · · · · · | E OF ACTION | , or o | THEACDITIN | |
| | Acidize | Deepen Deepen | | n(Start/Resume) | ☐ Water Shut-Off | |
| Notice of Intent | Alter Casing | Fracture Treat | Reclamati | • | Well Integrity | |
| Subsequent Report | Casing Repair | New Construction | Recomple | te | X Other | |
| o accordante resport | Change Plans | Plug & Abandon | Temporari | ily Abandon | Change Status, Put Well | |
| | Change Plans | | | | | |
| Final Abandonment Notice Describe Proposed or Completed Opproposal is to deepen directionally of under which the work will be perfort involved operations. If the operation Abandonment Notices shall be filed inspection.) | Convert to Injector eration (clearly state all pertinent derivation of the horizontally, give subsumed or provide the Bond No. on file a results in a multiple completion or | Plug Back etails, including estimated starting turface locations and measured and with BLM/BIA. Required subse recompletion in a new interval, a | l true vertical depths quent reports shall be Form 3160-4 shall b | l work and approxim of all pertinent mark filed within 30 days e filed once testing h | ers and zones. Attach the Bond following completion of the as been completed. Final | |
| Final Abandonment Notice Describe Proposed or Completed Opproposal is to deepen directionally ounder which the work will be perform involved operations. If the operation Abandonment Notices shall be filed | convert to Injector eration (clearly state all pertinent de recomplete horizontally, give subs med or provide the Bond No. on file a results in a multiple completion or only after all requirements, includir | Plug Back etails, including estimated starting surface locations and measured and e with BLM/BIA. Required subse recompletion in a new interval, a ng reclamation, have been complet 00 p.m. on 9/27/05. | date of any proposed true vertical depths quent reports shall be Form 31 60-4 shall be ed, and the operator | I work and approxim of all pertinent mark filed within 30 days e filed once testing h has determined that t | ate duration thereof. If the ers and zones. Attach the Bond following completion of the as been completed. Final | |
| Prinal Abandonment Notice Describe Proposed or Completed Opproposal is to deepen directionally of under which the work will be perform involved operations. If the operation Abandonment Notices shall be filed inspection.) | convert to Injector eration (clearly state all pertinent de recomplete horizontally, give subs med or provide the Bond No. on file a results in a multiple completion or only after all requirements, includir | Plug Back etails, including estimated starting surface locations and measured and e with BLM/BIA. Required subse recompletion in a new interval, a ng reclamation, have been complet 00 p.m. on 9/27/05. | date of any proposed I true vertical depths Juent reports shall be Form 3160-4 shall be ed, and the operator | I work and approxim of all pertinent mark filed within 30 days e filed once testing h has determined that t | ate duration thereof. If the ers and zones. Attach the Bond following completion of the as been completed. Final he site is ready for final | |
| Prinal Abandonment Notice Describe Proposed or Completed Opproposal is to deepen directionally of under which the work will be perform involved operations. If the operation Abandonment Notices shall be filed inspection.) | convert to Injector eration (clearly state all pertinent de recomplete horizontally, give subs med or provide the Bond No. on file a results in a multiple completion or only after all requirements, includir | Plug Back etails, including estimated starting surface locations and measured and e with BLM/BIA. Required subse recompletion in a new interval, a ng reclamation, have been complet 00 p.m. on 9/27/05. | date of any proposed true vertical depths quent reports shall be Form 31 60-4 shall be ed, and the operator | I work and approxim of all pertinent mark filed within 30 days e filed once testing h has determined that t | ate duration thereof. If the ers and zones. Attach the Bond following completion of the as been completed. Final | |
| Final Abandonment Notice Describe Proposed or Completed Opproposal is to deepen directionally or under which the work will be performinvolved operations. If the operation Abandonment Notices shall be filed inspection.) The above referenced well | convert to Injector Peration (clearly state all pertinent de recomplete horizontally, give subsumed or provide the Bond No. on file a results in a multiple completion or only after all requirements, includir was put on injection at 2: | Plug Back etails, including estimated starting surface locations and measured and e with BLM/BIA. Required subse recompletion in a new interval, a ng reclamation, have been complet 00 p.m. on 9/27/05. | date of any proposed true vertical depths quent reports shall be Form 31 60-4 shall be ed, and the operator | I work and approxim of all pertinent mark filed within 30 days e filed once testing h has determined that t | ate duration thereof. If the ers and zones. Attach the Bond following completion of the as been completed. Final he site is ready for final he seemed by the | |
| Printal Abandonment Notice Describe Proposed or Completed Opproposal is to deepen directionally of under which the work will be perform involved operations. If the operation Abandonment Notices shall be filed inspection.) The above referenced well above referenced well reby certify that the foregoing is the (Printed/Typed) | convert to Injector Peration (clearly state all pertinent de recomplete horizontally, give subsumed or provide the Bond No. on file a results in a multiple completion or only after all requirements, includir was put on injection at 2: | Plug Back etails, including estimated starting surface locations and measured and e with BLM/BIA. Required subse recompletion in a new interval, a ng reclamation, have been complet 000 p.m. on 9/27/05. | date of any proposed true vertical depths quent reports shall be Form 3160-4 shall bed, and the operator | I work and approxim of all pertinent mark filed within 30 days e filed once testing h has determined that t | ate duration thereof. If the ers and zones. Attach the Bond following completion of the as been completed. Final he site is ready for final | |
| Final Abandonment Notice Describe Proposed or Completed Opproposal is to deepen directionally or under which the work will be perform involved operations. If the operation Abandonment Notices shall be filed inspection.) The above referenced well above referenced well represent the property of the pr | convert to Injector Peration (clearly state all pertinent de recomplete horizontally, give subsumed or provide the Bond No. on file a results in a multiple completion or only after all requirements, includir was put on injection at 2: | Plug Back etails, including estimated starting surface locations and measured and ewith BLM/BIA. Required subset recompletion in a new interval, and reclamation, have been completed to provide the completed of the complete surface of the complete surface and the complete surface surfa | date of any proposed true vertical depths quent reports shall be Form 3160-4 shall bed, and the operator | I work and approxim of all pertinent mark filed within 30 days e filed once testing h has determined that t | ate duration thereof. If the ers and zones. Attach the Bond following completion of the as been completed. Final he site is ready for final he seem of the seem of | |

Approved by Title Date Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease Office which would entitle the applicant to conduct operations thereon.

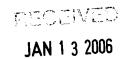
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES 5. LEASE DESIGNATION AND SERIAL NUMBER DIVISION OF OIL, GAS AND MINING UTU76241 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: SUNDRY NOTICES AND REPORTS ON WELLS 7. UNIT or CA AGREEMENT NAME: o not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. GREATER BOUNDARY II 8. WELL NAME and NUMBER: 1. TYPE OF WELL OIL WELL GAS WELL OTHER **GREATER BOUNDARY 7-27-8-17** 2. NAME OF OPERATOR 9. API NUMBER Newfield Production Company 4301332232 3. ADDRESS OF OPERATOR: PHONE NUMBER 10. FIELD AND POOL, OR WILDCAT: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 435.646.3721 Monument Butte 4. LOCATION OF WELL FOOTAGES AT SURFACE: 2085 FNL 2203 FEL COUNTY: Duchesne Utah OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SW/NE, 27, T8S, R17E STATE: CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 11. TYPE OF ACTION SubDate TYPE OF SUBMISSION TYPE OF ACTION ACIDIZE DEEPEN REPERFORATE CURRENT FORMATION ■ NOTICE OF INTENT FRACTURE TREAT (Submit in Duplicate) ALTER CASING SIDETRACK TO REPAIR WELL CASING REPAIR □ NEW CONSTRUCTION TEMPORARITLY ABANDON Approximate date work will CHANGE TO PREVIOUS PLANS OPERATOR CHANGE TUBING REPAIR CHANGE TUBING PLUG AND ABANDON VENT OR FLAIR X SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK WATER DISPOSAL (Submit Original Form Only) CHANGE WELL STATUS PRODUCTION (START/STOP) WATER SHUT-OFF Date of Work Completion COMMINGLE PRODUCING FORMATIONS OTHER: - Step Rate Test RECLAMATION OF WELL SITE 01/12/2006 CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. A step rate test was conducted on the subject well on January 4, 2006. Results from the test indicate that the fracture gradient is .744 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed to 1430 psi.

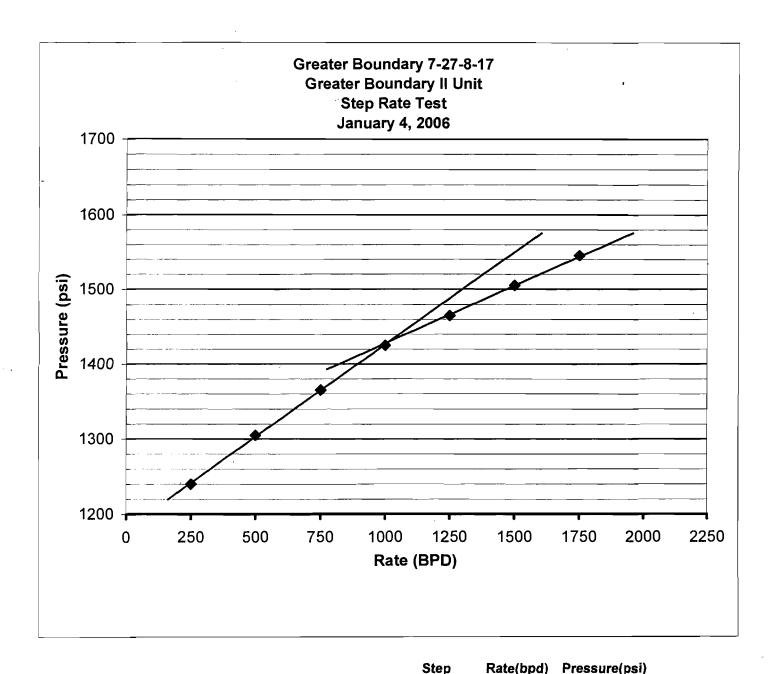
prepred by the teah Division of the case and Mining

| NAME (PLEASE PRINT) Cheyenne Batemen | | TITLE Well Analyst Foreman |
|--------------------------------------|------|----------------------------|
| SIGNATURE Chuyet | both | DATE_ 01/12/2006 |

(This space for State use only)



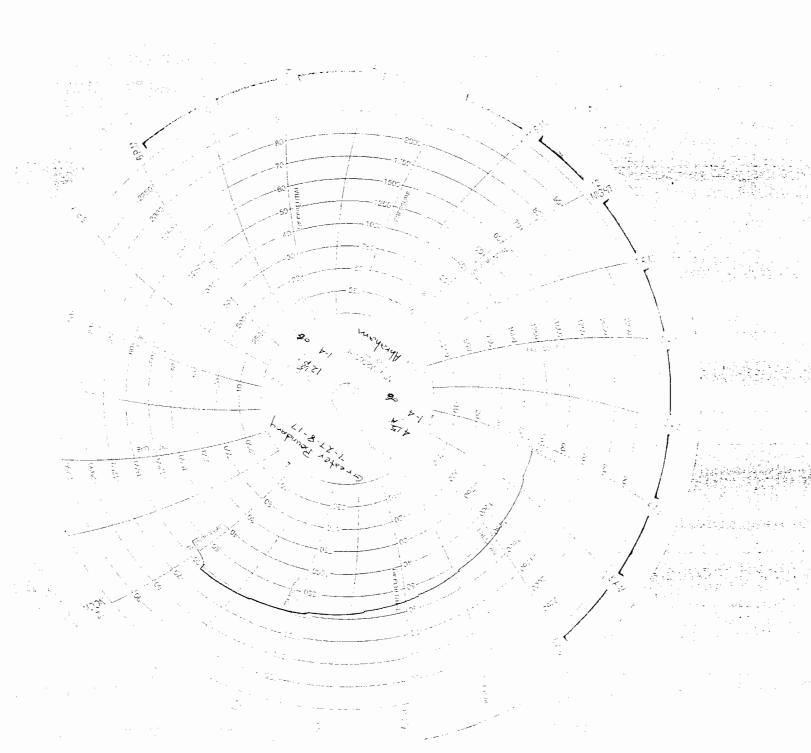
CIVIOF OIL CAU & MINING



| | | | <u> </u> | · /= 40 / = P = / | · · · · · · · · · · · · · · · · · · · |
|--|-------|--------|----------|-------------------|---------------------------------------|
| Start Pressure: | 1170 | psi | 1 | 250 | 1240 |
| Instantaneous Shut In Pressure (ISIP): | 1490 | psi | 2 | 500 | 1305 |
| Top Perforation: | 4627 | feet | 3 | 750 | 1365 |
| Fracture pressure (Pfp): | 1430 | psi | 4 | 1000 | 1425 |
| FG: | 0.744 | psi/ft | 5 | 1250 | 1465 |
| | | • | 6 | 1500 | 1505 |
| | | | 7 | 1750 | 1545 |
| | | | | | |

Step Rate Test (SRT) Analysis

| Date: 01/12/2006 | Operator: | Newfield Pro | duction Co | mpany |
|--|--|--|---------------------------------------|---|
| | Well: | Monument S | tate 24-2-9- | 17 |
| | Permit #: | UT20776-066 | | |
| Enter the fo | ollowing data: | | | |
| | Specific Gi | ravity (sg) of injectate = | 1.005 | g/cc |
| | | top perforation (D) = | 4078 | |
| Top of permitted injection zone | depth (blank=use top perfor | ration to calculate fg) = | | |
| Estimated Fo | ormation Parting Pressure (I | Pfp) from SRT chart = | 1585 | p.si |
| Is | nstantaneous Shut In Pressu | re (ISIP) from SRT = | 1630 | psi |
| Bottom Hole Parting | Pressure (Pbhp) from down | hole pressure recorder = | | psi |
| D = depth wed = +078 | Calculated Fract | ture Gradient = where fg = Puhp / D (Note: this form tip und = 3360 | 0.824 | psi/fl. 110m hole parting pressure if available) = |
| Calculated | Bottom Hole Parting 10 calculate Bottom Hole Parting (Uses lesser of ISIP or Pff) Vall | Pressure (Phhp) = Formation Fracture Pressur | 3360 n (ISIP or Pfp) + (0.433 * SG | psi ◆D) |
| Part Two - Calculation Maximum Allowable Injectio | | llowable Injection = | <u> Pressure (</u> 1585 | MAIP) |
| | 11 1 1 1 COO GAL (11 22 1) | | | 7*** |



A(0)STATE OF UTAH Cong 4414 DEPARTMENT OF NATURAL RESOURCES 5. LEASE DESIGNATION AND SERIAL NUMBER: 16. DIVISION OF OIL, GAS AND MINING USA UTU-76241 Liby 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: SUNDRY NOTICES AND REPORTS ON WELLS 1122. 7. UNIT or CA AGREEMENT NAME: Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. **GMBU** 1-TYPE OF WELL: 8. WELL NAME and NUMBER: OIL WELL GAS WELL OTHER **GREATER BOUNDARY 7-27-8-17** 2. NAME OF OPERATOR: 9. API NUMBER: - NEWFIELD PRODUCTION COMPANY 4301332232 3. ADDRESS OF OPERATOR: PHONE NUMBER 10. FIELD AND POOL, OR WILDCAT: Route 3 Box 3630 ZIP 84052 CITY Myton STATE UT 435.646.3721 GREATER MB UNIT 4...LOCATION OF WELL: FOOTAGES AT SURFACE: 2085 FNL 2203 FEL COUNTY: DUCHESNE OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWNE, 27, T8S, R17E STATE: UT ... 14 Apr CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA $\mathbb{M}_{i,i}$ TYPE OF SUBMISSION TYPE OF ACTION ACIDIZE DEEPEN REPERFORATE CURRENT FORMATION NOTICE OF INTENT ALTER CASING FRACTURE TREAT SIDETRACK TO REPAIR WELL CASING REPAIR NEW CONSTRUCTION TEMPORARITLY ABANDON Approximate date work will . 1% CHANGE TO PREVIOUS PLANS OPERATOR CHANGE TUBING REPAIR 1--- TOVO CHANGE TUBING PLUG AND ABANDON VENT OR FLAIR SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK WATER DISPOSAL (Submit Original Form Only) CHANGE WELL STATUS PRODUCTION (START/STOP) WATER SHUT-OFF Date of Work Completion: COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE X OTHER: - Five Year MIT 4 150 08/24/2010 CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. On 08/23/2010 Nathan Wiser with the EPA was contacted concerning the 5 year MIT on the above listed well. On 08/24/2010 the casing was pressured up to 1095 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 1343 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20702-06485 API# 43-013-32232 Accented by the United States and Braing energy To the second FOR RECORD ONLY

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

TITLE Administrative Assistant

DATE 08/25/2010

(This space for State use only)

.20015

RECEIVED

SEP 07 2010

DW of CIL, GAS A MYNNA

Mechanical Integrity Test Casing or Annulus Pressure Mechanical Integrity Test U.S. Environmental Protection Agency Underground Injection Control Program 999 18th Street, Suite 500 Denver, CO 80202-2466

Date: 8 /24 /10

EPA Witness:

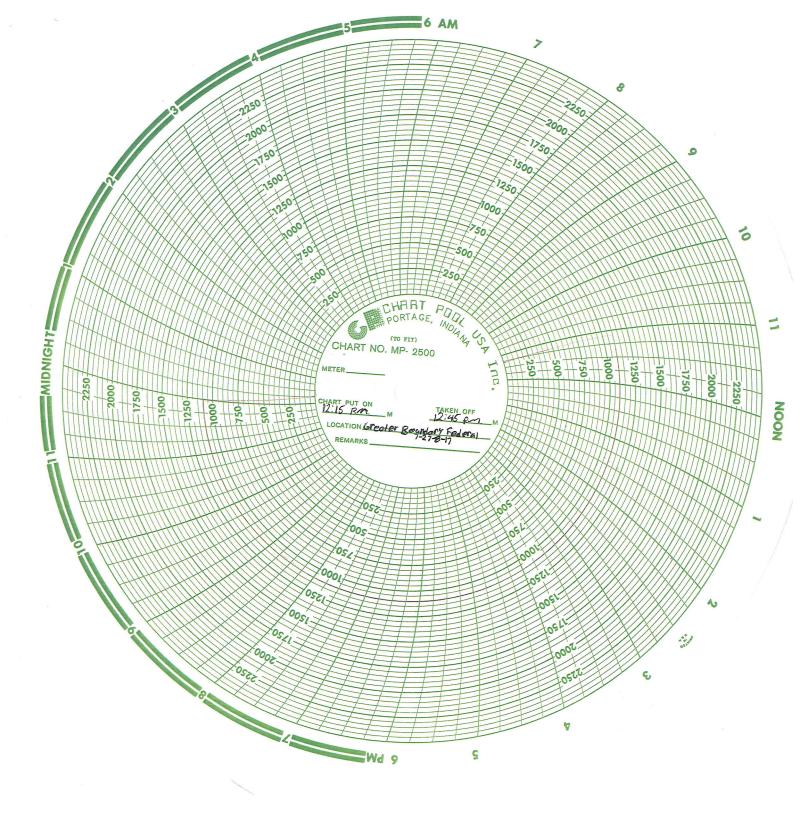
| Test conducted by: Rast | y Bird | | | | | |
|---|----------|-------------------|-------------------|----------------------------|--|--|
| Well Name: Greater Bo Field: Monament B Location: SW/NE Sec Operator: New field Last MIT: / | 27 T 8 | n (S) r <u>17</u> | Type: ER SWD Star | tus: AC TA UC ne State: 4 | | |
| Is this a regularly scheduled test? [X] Yes [] No Initial test for permit? [] Yes [X] No Test after well rework? [] Yes [X] No Well injecting during test? [] Yes [X] No If Yes, rate: bpd Pre-test casing/tubing annulus pressure: psig | | | | | | |
| MIT DATA TABLE TUBING | Test #1 | | Test #2 | Test #3 | | |
| Initial Pressure | PRESSURE | | · . | | | |
| | 1343 | psig : | psig | psig | | |
| End of test pressure | 1343 | psig | psig | psig | | |
| CASING / TUBING | ANNULUS | | PRESSURE | | | |
| 0 minutes | 1095 | psig | psig | psig | | |
| 5 minutes | 1095 | psig | psig | psig | | |
| 10 minutes | 1095 | psig | psig | psig | | |
| 15 minutes | 1095 | psig | psig | psig | | |
| 20 minutes | 1095 | psig | psig | psig | | |
| 25 minutes | 1095 | psig | psig | psig | | |
| 30 minutes | 1095 | psig | psig | psig | | |
| minutes | | psig | psig | psig | | |
| minutes | | psig | psig | psig | | |
| RESULT | IVI Pass | []Fail | [] Poss []Foil | I Doss I Wat | | |

Does the annulus pressure build back up after the test? [] Yes [X] No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

| Signature of Witness: Ruste | ** |
|--------------------------------|-----------|
| Signature of withess." W ///// | Wiri |
| | 4347171 |
| | |



Sundry Number: 64847 API Well Number: 43013322320000

| | STATE OF UTAH | | FORM 9 |
|--|---|--|--|
| | DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MININ | | 5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-76241 |
| SUNDR | Y NOTICES AND REPORTS ON | N WELLS | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: |
| | posals to drill new wells, significantly decenter plugged wells, or to drill horizontantors such proposals. | | 7.UNIT or CA AGREEMENT NAME: GMBU (GRRV) |
| 1. TYPE OF WELL Water Injection Well | | | 8. WELL NAME and NUMBER: GBU 7-27-8-17 |
| 2. NAME OF OPERATOR: NEWFIELD PRODUCTION CO | DMPANY | | 9. API NUMBER: 43013322320000 |
| 3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT | | IONE NUMBER: | 9. FIELD and POOL or WILDCAT: MONUMENT BUTTE |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 2085 FNL 2203 FEL | | | COUNTY: DUCHESNE |
| QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SWNE Section: 2 | IIP, RANGE, MERIDIAN: 27 Township: 08.0S Range: 17.0E Meridiar | : S | STATE: UTAH |
| 11. CHEC | APPROPRIATE BOXES TO INDICATE | NATURE OF NOTICE, REPOR | RT, OR OTHER DATA |
| TYPE OF SUBMISSION | | TYPE OF ACTION | |
| | ACIDIZE | ALTER CASING | CASING REPAIR |
| NOTICE OF INTENT Approximate date work will start: | CHANGE TO PREVIOUS PLANS | CHANGE TUBING | CHANGE WELL NAME |
| Approximate date work will start. | CHANGE WELL STATUS | COMMINGLE PRODUCING FORMATIONS | CONVERT WELL TYPE |
| SUBSEQUENT REPORT Date of Work Completion: | DEEPEN | FRACTURE TREAT | NEW CONSTRUCTION |
| 7/16/2015 | | | PLUG BACK |
| | ☐ OPERATOR CHANGE | PLUG AND ABANDON | |
| SPUD REPORT Date of Spud: | PRODUCTION START OR RESUME | RECLAMATION OF WELL SITE | RECOMPLETE DIFFERENT FORMATION |
| | REPERFORATE CURRENT FORMATION | SIDETRACK TO REPAIR WELL | L TEMPORARY ABANDON |
| | TUBING REPAIR | VENT OR FLARE | WATER DISPOSAL |
| DRILLING REPORT Report Date: | WATER SHUTOFF | SI TA STATUS EXTENSION | APD EXTENSION |
| | WILDCAT WELL DETERMINATION | OTHER | OTHER: 5 YR MIT |
| 5 YR MIT perform casing was pressur no pressure loss. pressure was 1 representative av | completed operations. Clearly show all pred on the above listed well. (ed up to 1615 psig and charte The well was not injecting duri 302 psig during the test. There vailable to witness the test. EP | On 07/16/2015 the d for 30 minutes with ng the test. The tbg was not an EPA A #UT22197-06485 | Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY July 20, 2015 |
| NAME (PLEASE PRINT) Lucy Chavez-Naupoto | PHONE NUMBER 435 646-4874 | TITLE Water Services Technician | |
| SIGNATURE | | DATE 7/17/2015 | |

Sundry Number: 64847 API Well Number: 43013322320000

Mechanical Integrity Test

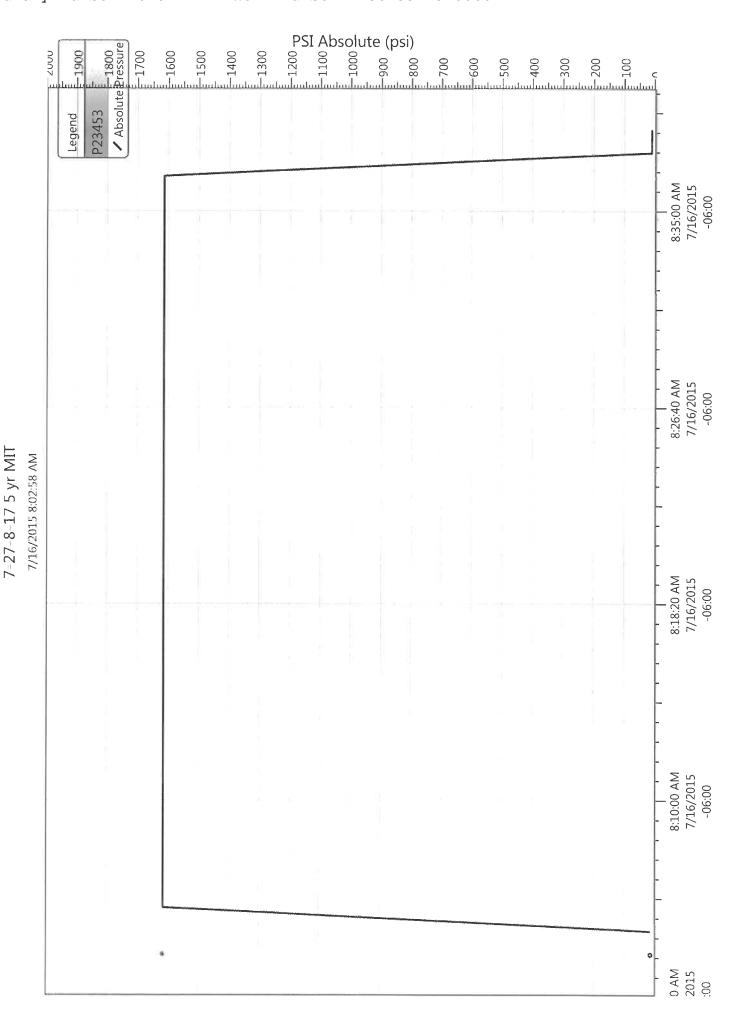
Casing or Annulus Pressure Mechanical Integrity Test U.S. Environmental Protection Agency Underground Injection Control Program 999 18th Street, Suite 500 Denver, CO 80202-2466

| EPA Witness: Date: 7 1 16 1 2015 Test conducted by: Shannon Lazenby Others present: | | | | | | | |
|--|--------------------------|---------|------------------------------------|-------------------------|--|--|--|
| Field: Greater Manuson | ent Butte :: 27 T85 N | /S R 17 | Type: ER SWD Statu _E/W County: | es: AC TA UC State: ut | | | |
| Is this a regularly scheduled test? Yes No | | | | | | | |
| MIT DATA TABLE TUBING | Test #1 | | Test #2 | Test #3 | | | |
| Initial Pressure | PRESSURE | | | _ | | | |
| End of test pressure | 1302 | psig | psig | psig | | | |
| CASING / TUBING | ANNULUS | psig | psig | psig | | | |
| 0 minutes | | psig | PRESSURE psig | | | | |
| 5 minutes | 1614,6 | psig | psig | psig | | | |
| 10 minutes | 1614.6 | psig | psig | psig | | | |
| 15 minutes | 1615.2 | | | psig | | | |
| 20 minutes | 1614.8 | psig | psig | psig | | | |
| | 1615.0 | psig | psig | psig | | | |
| 25 minutes | 1614.8 | psig | psig | psig | | | |
| 30 minutes | 1614.8 | psig | psig | psig | | | |
| minutes | | psig | psig | psig | | | |
| minutes | | psig | psig | psig | | | |
| RESULT . | Pass | Fail | Pass Fail | [] Pass []Fail | | | |
| Does the annulus pressure by MECH | ANICAL I | NTEG | RITY PRESSURI | E TEST | | | |

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

| | | | | and the second second second second second | | | |
|----------------------------|-----------|-------|--|--|------------------|--|-------|
| Ottom and the control of A | A 27 4 | | | | | | |
| Signature of \ | Withpee | | | | | | |
| Olgi latare or | erinicoo. | | | | | | |
| • | | 7777N | | | Thereses and the | - Control of the Cont | |
| | | | | | | | 74444 |

Sundry Number: 64847 API Well Number: 43013322320000



Greater Boundary 7-27-8-17

Spud Date: 4/25/01 Put on Production: 7/13/01

GL: 5146' KB: 5156'

Injection Wellbore Diagram

Initial Production: 117.9 BOPD, 174.6 MCFD, 26.3 BWPD

SURFACE CASING

CSG SIZE, 8-5/8 GRADE: 1-55

WEIGHT 24#

LENGTH 7 jts. (298 66') DEPTH LANDED: 307.66°

HOLE SIZE 12-1/4"

CEMENT DATA: 145 sxs Class "G" cnit, est 4 bols cint to surf

PRODUCTION CASING

CSG SIZE: 5-1/2

GRADE: J-55

WEIGHT: 15.5#

1.FNGTH: 145 jts. (6271.53°)

DEPTH LANDED: 5269 13

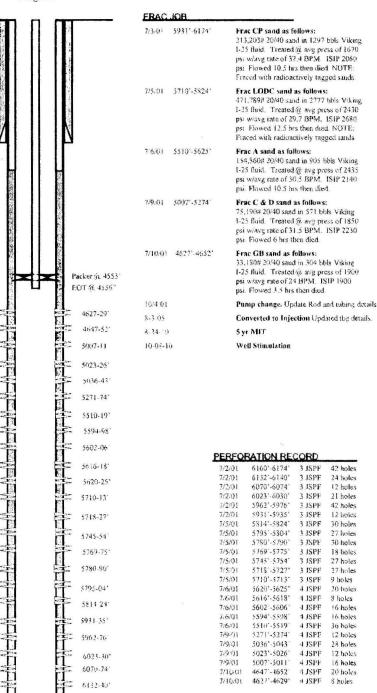
HOLE SIZE, 7-7/8

CEMENT DATA: 390 sk Prem. Lite II mixed & 575 sxs 50/50 POZ.

CEMENT TOP AT 720'

SIZE/GRADE/WT . 2-7/8" / J-55 / 6.5# NO OF IOENTS, 140 its (4547 391) SFATING NIPPLE: 2-7:8" (1.10) SN LANDED AT: 4547.9° KB PACKER: 45531 KB

TOTAL STRING LENGTH: EOT @ 4556' KB



6160-74

Top Fill (g. 6248) PBTD ta 62481



Greater Boundary 7-27-8-17

2085' FNL & 2203' FEL SW/NE Section 27-T8S-R17E Duchesne Co, Utah API #43-013-32232; Lease #UTU-76241 42 holes

24 holes

12 holes

21 holes

42 holes

12 holes

30 holes

30 holes

18 boles

27 holes

9 holes

8 holes

16 holes

16 holes

36 holes

28 holes

12 holes

16 holes

20 holes

8 holes